					DEPARTMENT	T OF NA	OF UTAH TURAL RESO GAS AND M				AMEN	FC DED REPOR	RM 3	
		AP	PLICATION F	OR P	ERMIT TO DRILL					1. WELL NAME and N		2-35L1BS		
2. TYPE O	F WORK	DRILL NEW WELL	REENTE	R P&A \	WELL DEEPEN	I WELL)			3. FIELD OR WILDCAT				
4. TYPE O	F WELL				d Methane Well: NO					5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	IE
6. NAME O	OF OPERATOR				AS ONSHORE, L.P.					7. OPERATOR PHONE				
8. ADDRES	SS OF OPERATO	OR			nver, CO, 80217					9. OPERATOR E-MAIL	L	anadarko		
	AL LEASE NUM	BER	F.O. BOX 1737		11. MINERAL OWNERS	SHIP				12. SURFACE OWNER		anauarku		
		TU-010954-A			FEDERAL INC	DIAN 🦲) STATE () FEE		-	DIAN 🦲			EE ()
13. NAME	OF SURFACE	OWNER (if box 12 :	= 'fee')							14. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNER	R E-MAIL	(if box 12	= 'fee')	
	N ALLOTTEE OI = 'INDIAN')	R TRIBE NAME			IS. INTEND TO COMM MULTIPLE FORMATION YES () (Submit C	NS	PRODUCTION		0	19. SLANT VERTICAL DIF	RECTION	AL (📵) H	IORIZON	AL (a)
20. LOCA	ATION OF WELL			FOO	OTAGES	QT	TR-QTR		CTION	TOWNSHIP	R	ANGE		RIDIAN
<u> </u>	N AT SURFACE		203		1767 FWL		SENW		35	9.0 S	2:	2.0 E	+	S
Top of U	ppermost Prod	ucing Zone	24	26 FSL	L 825 FWL	N	NWSW	;	35	9.0 S	2:	2.0 E	+	S
At Total	Depth		24	26 FSL	L 825 FWL	N	wsw	;	35	9.0 S	2:	2.0 E	1	S
21. COUN	TY	UINTAH		2	22. DISTANCE TO NEA		EASE LINE (F	eet)		23. NUMBER OF ACRI	ES IN DR		IT	
		UNITALL			25. DISTANCE TO NEA	REST W	ELL IN SAME	POOL		26. PROPOSED DEPTI	Н			
27. 51.51//	ATION - GROUN	DIEVE			28. BOND NUMBER		96 ————————————————————————————————————					TVD: 884	9	
Z7. ELEVA	ATION - GROON	4988			20. BOND NUMBER	WYBO	000291			29. SOURCE OF DRIL WATER RIGHTS APPR	OVAL NU		PPLICAB	LE
		1000			Hole, Casing			rmation	า					
String	Hole Size	Casing Size	Length	Weig	ght Grade & Th	read	Max Mu	d Wt.		Cement		Sacks	Yield	Weight
Surf	11	8.625	0 - 2400	28.	.0 J-55 LT8	&C	0.2	2		Type V		180	1.15	15.8
	7.075		0.0040	- 4.4		• • •	10	_		Class G		270	1.15	15.8
Prod	7.875	4.5	0 - 9049	11.	.6 I-80 LT8	&C	12.0	0	Pren	nium Lite High Strer 50/50 Poz	ngtn	300 1240	3.38	12.0
										30/30 F02		1240	1.31	14.3
					Α	ТТАСН	HMENTS							
	VER	IFY THE FOLLO	WING ARE AT	TACH	HED IN ACCORDAN	ICE WIT	TH THE UTA	AH OIL A	AND GAS	CONSERVATION G	ENERA	L RULES		
₩ w	ELL PLAT OR M	AP PREPARED BY I	LICENSED SUR\	/EYOR	OR ENGINEER		№ сом	PLETE DI	RILLING PI	LAN				
AF	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREE	MENT	(IF FEE SURFACE)		FORM	1 5. IF OP	ERATOR IS	S OTHER THAN THE LE	EASE OW	NER		
I DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY O	R HOR	RIZONTALLY DRILLED))	торо	GRAPHIC	CAL MAP					
NAME La	ura Abrams			ТІТ	LE Regulatory Analyst	t II			PHONE 7	20 929-6356				
SIGNATU	RE			DA.	TE 10/31/2013				EMAIL La	aura.Abrams@anadarko	o.com			
	BER ASSIGNED)4754129(0000		APF	PROVAL				Bol	ogill				
									Perm	it Manager				

NBU 922-35F Pad Drilling Program

1 of 4

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-35L1BS

Surface: 2032 FNL / 1767 FWL SENW BHL: 2426 FSL / 825 FWL NWSW

Section 35 T9S R22E

Uintah County, Utah Mineral Lease: UTU-010954-A

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta Green River Birds Nest Mahogany Wasatch Mesaverde	0 - Surface 1,216' 1,483' 1,951' 4,327' 6,605'	Water Water Gas Gas
Sego	8,849'	Gas
TVD	8,849'	
TD	9,049'	

3. <u>Pressure Control Equipment</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

NBU 922-35F Pad Drilling Program
2 of 4

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8849' TVD, approximately equals 5,398 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,474 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

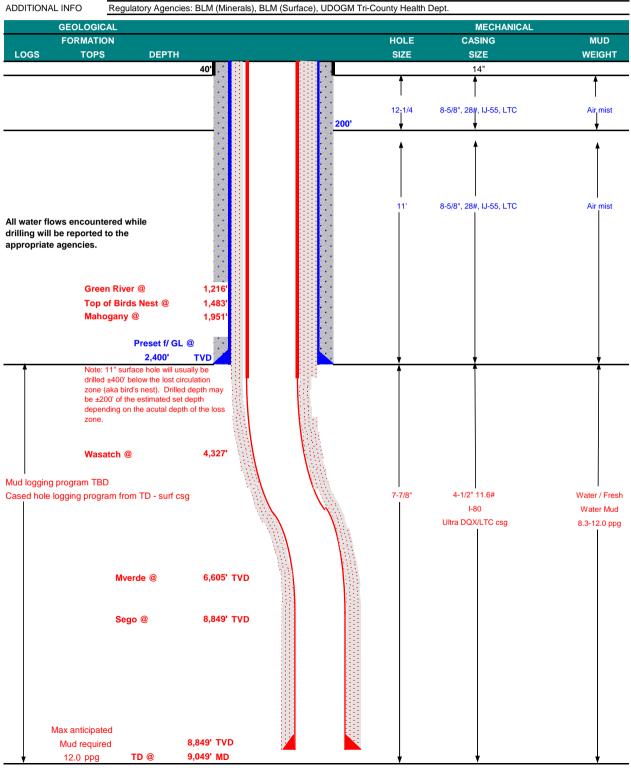
10. <u>Other Information:</u>

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KER	R-McGEE O	IL & GAS ONS	HORE LP		DATE	August 2	7, 2013	
WELL NAME NB	J 922-35L	.1BS			TD	8,849'	TVD	9,049' MD
FIELD Natural Butte	S	COUNTY	Uintah ST	ATE Utah	1	FINISH	HED ELEVATION	4,988'
SURFACE LOCATION	SENW	2032 FNL	1767 FWL	Sec 35	T 9S	R 22E		
	Latitude:	39.994186	Longitude:	-109.410	398		NAD 83	
BTM HOLE LOCATION	NWSW	2426 FSL	825 FWL	Sec 35	T 9S	R 22E		
	Latitude:	39.991920	Longitude:	-109.413	3757		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/M	lesaverde	•		•			
ADDITIONAL INFO	Regulatory	Agencies: BLM	(Minerals), BLM	I (Surface)	, UDOGM	Tri-County Hea	Ith Dept.	





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

DESIGN FACTORS **CASING PROGRAM** LTC DQX COLLAPSE TENSION SIZE INTERVAL WT GR. CPLG. BURST 0-40' CONDUCTOR 14" 1,880 348,000 3,390 N/A SURFACE 8-5/8" 2,400 28.00 JJ-55 LTC 2.25 1.67 5.91 N/A to 6,350 223,000 267,035 7,780 **PRODUCTION** 4-1/2" 5,000 11.60 I-80 DQX 1.11 1.15 3.12 7,780 6.350 223,000 267,035 4-1/2" 5,000 to 9,049 11.60 I-80 LTC 1.11 1.15 5.81

Surface Casing:

(Burst Assumptions: TD =

12.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to	surface, o	otion 2 will	be utilized	
Option 2 LEAD	1,900'	65/35 Poz + 6% Gel + 10 pps gilsonite	180	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,819'	Premium Lite II +0.25 pps celloflake + .4% FL-52	300	35%	12.00	3.38
		+ .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II +				
		1.2% Sodium Metasilicate + .05 lbs/sk Static Free				
TAIL	5,230'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free	1,240	35%	14.30	1.31
		+ 1.2% Sodium Metasilicate + .5 % EC-1				
		+.002 gps FP-6L + 2% Bentonite II				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will	be taken at	1,000' minin	num intervals

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

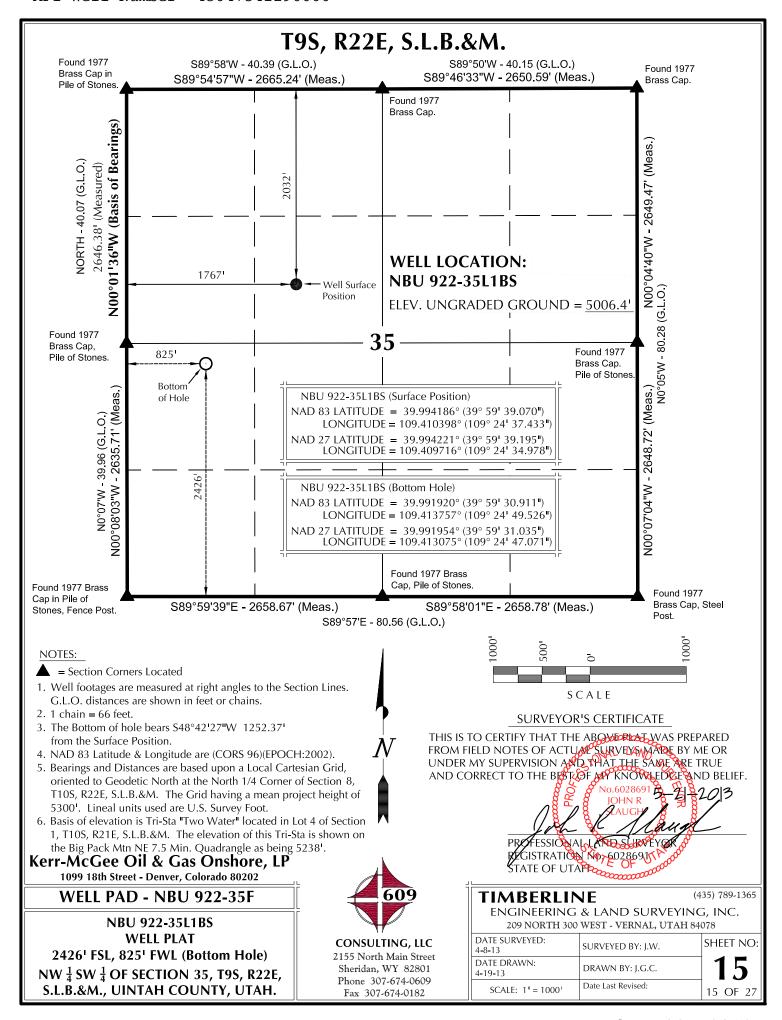
DRILLING ENGINEER:		DATE:	
	Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott	· 	

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

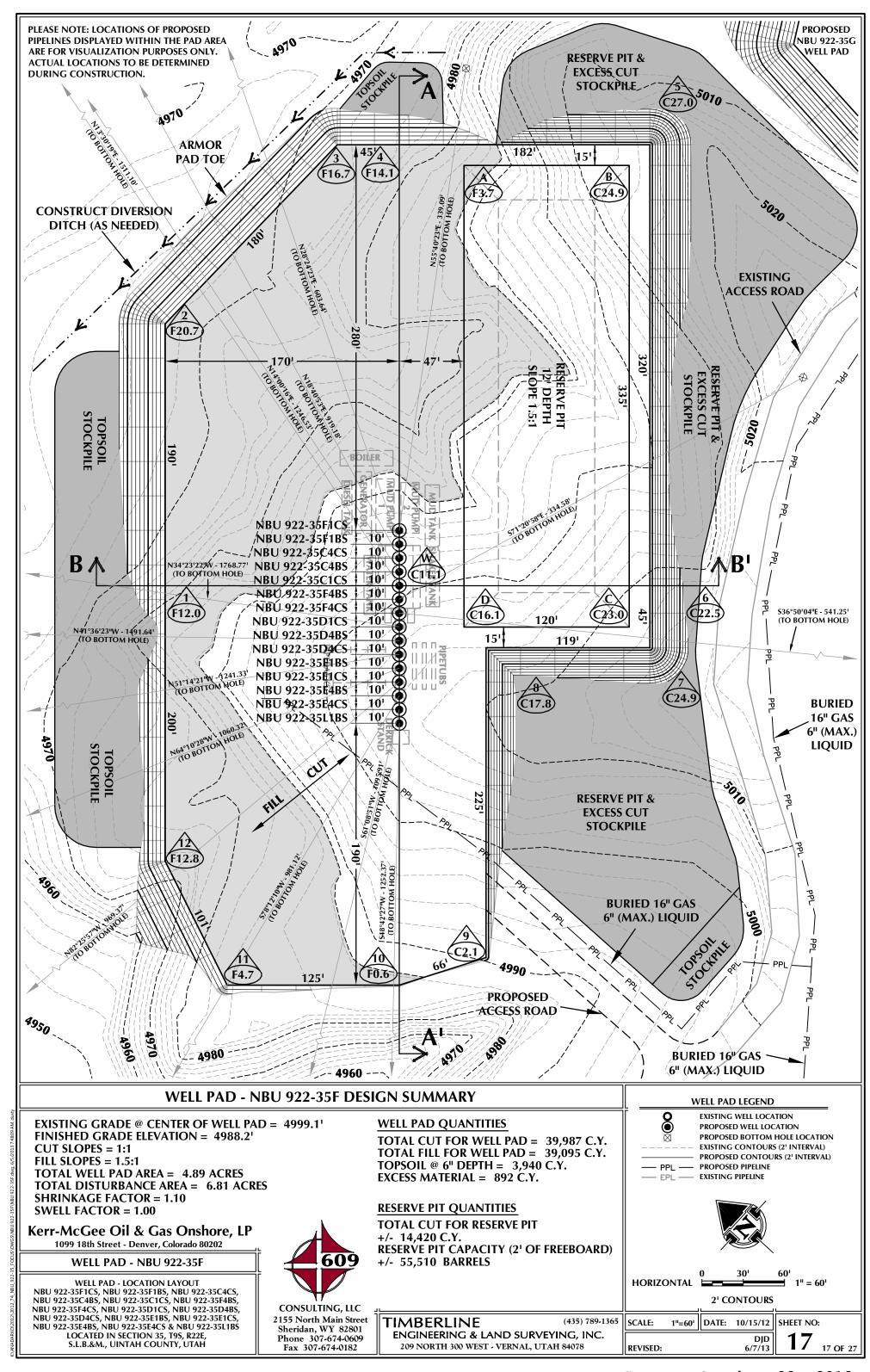
DATE:		

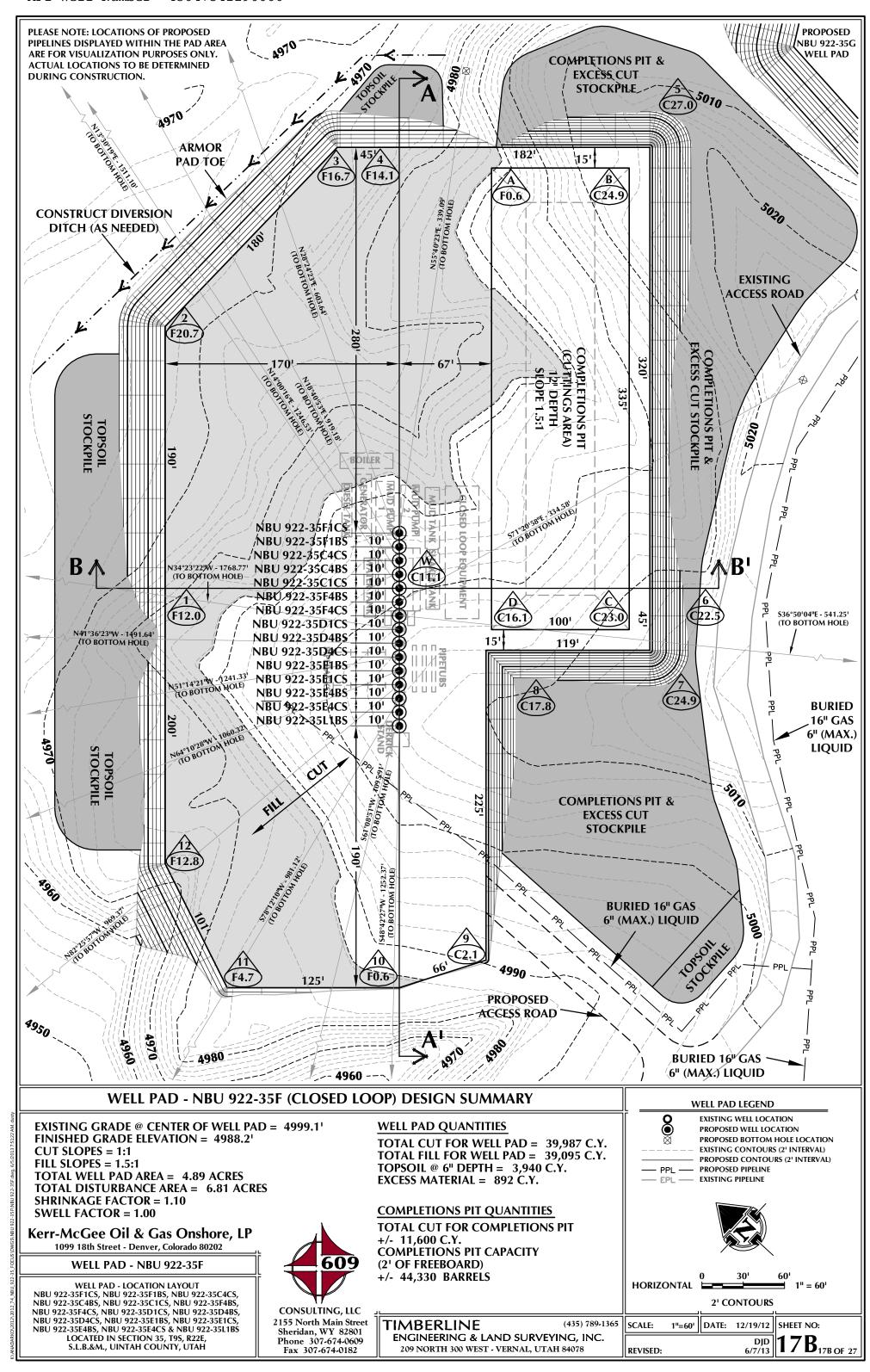
^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

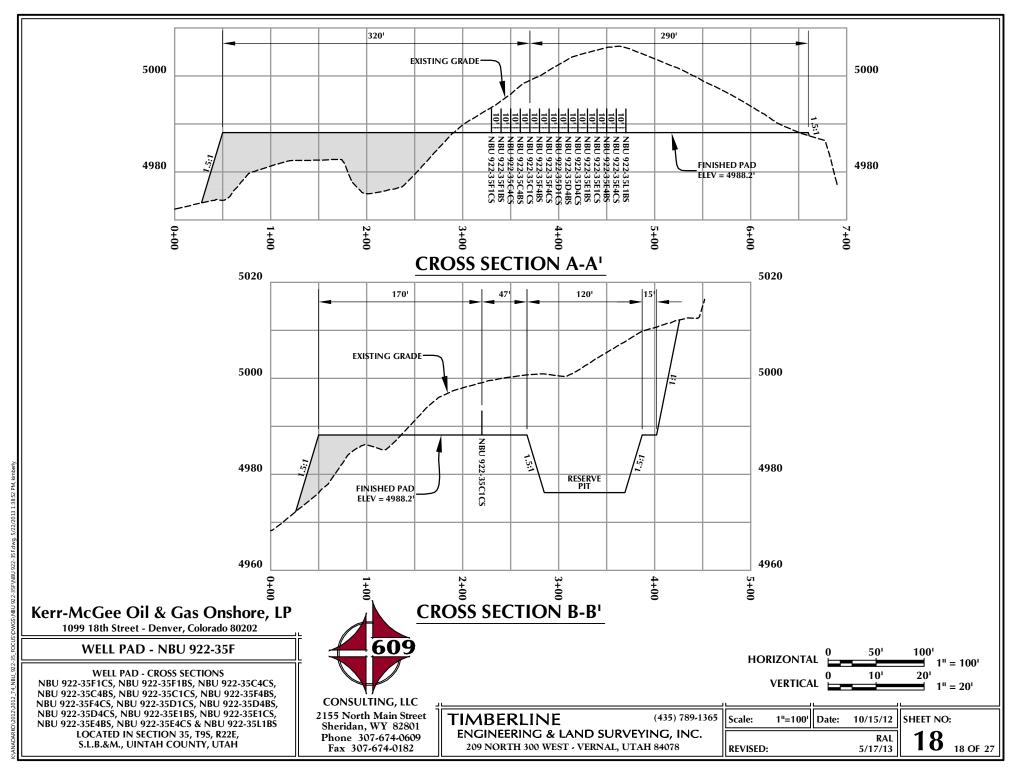


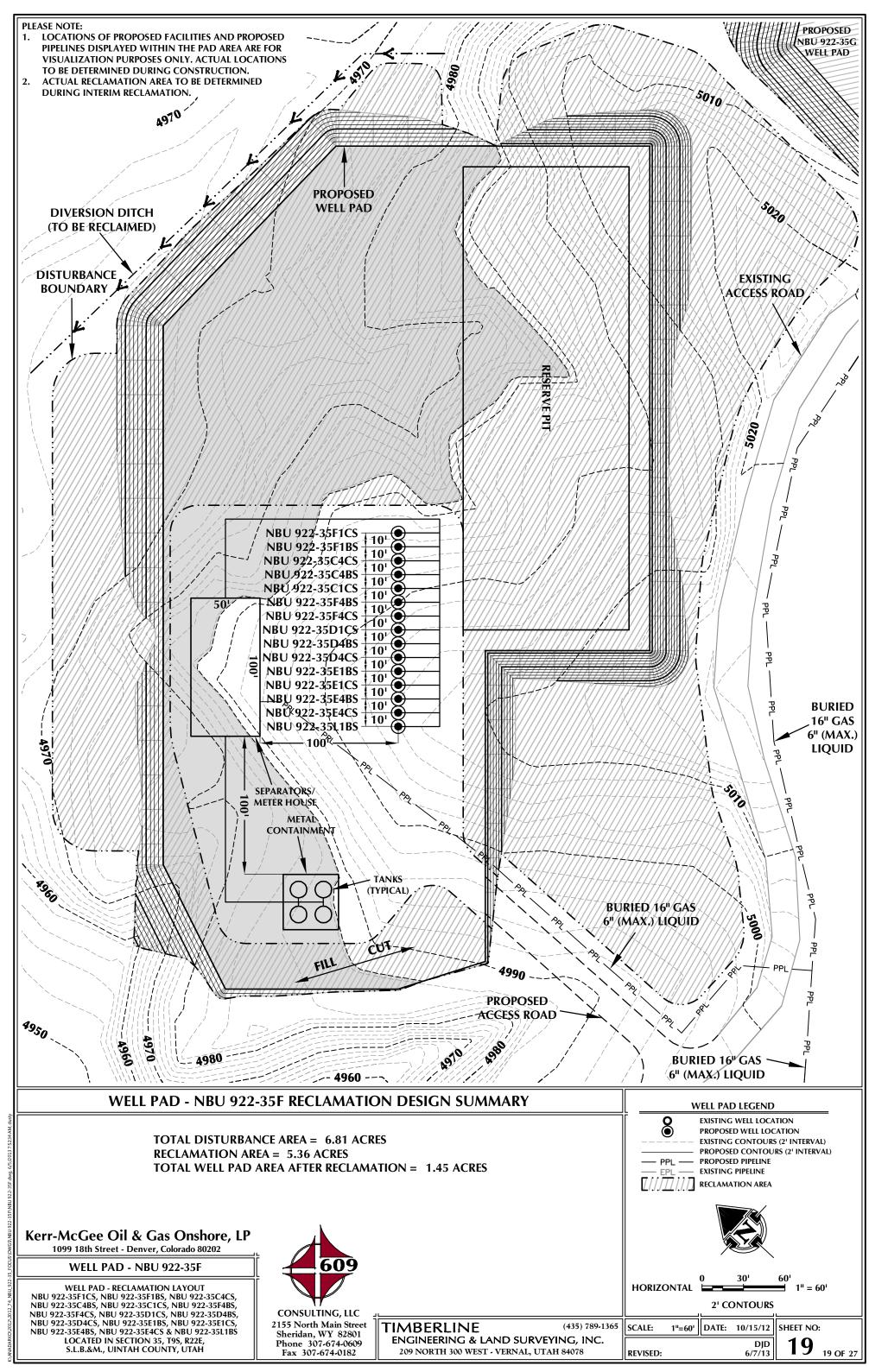
			SURF	FACE POSI	ITION							В	ОТТОМ НОГ	E		
WELL NAME		D83			NAD27					NAE				AD27		
NBU	LATITUDE 39°59'40.005'	LONGIT 109°24'36		LATITUD 39°59'40.1			FOO1	TAGES	LATIT 39°59'4			NGITUDE 24'32.510"	39°59'42.017		GITUDE 4'30.055"	FOOTAGES 1747' FNL
922-35F1CS	39.994446°	109.41003	30° 3	39.994480	° 109.409	348°	1938 1870'		39.9949	970°		09031°	39.995005°	109.40	4'30.055" 08349°	2150' FWL
NBU 922-35F1BS	39°59'39.938' 39.994427°	=		39°59'40.0 39.994462	063" 109°24' ° 109.409		1944		39°59'4 39.9958			24'32.509" -09030°	39°59'45.307 39.995919°		4'30.054"	1414' FNL
NBU	39.99442/° 39°59'39.871'	109.41005 109°24'36		39.994462 39°59'39.9			1863 ¹		39.9950 39°59'4		_	.09030° 24'32.509"	39.995919 ³		08348° 4'30.053"	2150' FWL 1081' FNL
922-35C4CS	39.994409°	109.41008	33° 3	39.994443	° 109.409	9401°	1855	FWL	39.996	798°	109.4	·09030°	39.996832°	109.40	08348°	2150¹ FWL
NBU 922-35C4BS	39°59'39.805' 39.994390°	109°24'36 109.41010		39°59'39.9 39.994425			1958 1848'		39°59'5 39.997			24'32.508" -09030°	39°59'51.877 39.997744°		4'30.053" 08348°	749' FNL 2150' FWL
NBU 922-35C1CS	39°59'39.738' 39.994372°	109°24'36 109.41013		39°59'39.8 39.994406			1965 1840'		39°59'5 39.9984			24'31.942" -08873°	39°59'54.377 39.998438°		4'29.487" 08191°	496' FNL 2194' FWL
NBU	39°59'39.671'	" 109°24'36	.582" 3	39°59'39.7	796" 109°24'	34.126"	1972	' FNL	39°59'3	88.612"	109°2	24'32.511"	39°59'38.737	^{7"} 109°2	4'30.055"	2079' FNL
922-35F4BS NBU	39.994353° 39°59'39.604'	109.41016 109°24'36		39.994388 39°59'39.7			1833 ¹		39.9940 39°59'3			09031° 24'32.511"	39.994094° 39°59'35.447		08349° 4'30.056"	2150' FWL 2412' FNL
922-35F4CS	39.994335°	109.41018	38° 3	39.994369	° 109.409		1826		39.993°	145°	109.4	-09031°	39.993180°	109.40	08349°	2150' FWL
NBU 922-35D1CS	39°59'39.537' 39.994316°	109°24'36 109.41021		39°59'39.6 39.994351			1985 1818'		39°59'5 39.9983		1	24'49.593" 13776°	39°59'54.089 39.998358°		4'47.137" 13094°	524' FNL 820' FWL
322-33DTC3	33.334310	109.41021	14 -		IVE COORDI								33.330330	109.4	13094	020 1 1 1
WELL NAME	NORTH	EAST	WELL	NAME	NORTH	EAST		WELL		NOR		EAST	WELL NA	ME N	NORTH	EAST
NBU	191.21	280.01	NBU	FF4 DC	531.0'	287.2	, II	NBU	C4C6	870	.8'	294.4	NBU 022.25.64	nc ,	1209.51	301.7'
922-35F1CS WELL NAME	NORTH	EAST	-	SF1BS L NAME	NORTH	EAST	_	922-35 WELL		NOR	TH	EAST	922-35C4 WELL NA		NORTH	EAST
NBU 922-35C1CS	1469.31	352.9'	NBU	5F4BS	-107.0'	317.0	ויי	NBU 922-35		-433		324.5	NBU 922-35D1		1459.61	-999.0'
OF THE NW S.L.B.&M. W GLOBAL PO	ARINGS IS TH	EN FROM ATELLITE R N00°01'3	6"W.	(To N13°36 (To N14°) (To N	Z=13.505 Bottom F 0'19"E - 1 Az=14.00 To Bottom P00'16"E - 2-35D4BS 35D4CS E1BS CS E1BS CS E2-85E-65 E2-85E-65 E3-85E-65 E3-	Hole) – 511.1	.53'		180 97 35 C 105		Botto RISS	N18 (8) (8) (8) (8) (8) (8) (8) (8) (8) (8		Hole) - 919.	18'	,09
WELS -NBU 9 NBU 922-3 NBU 922-3 NBU 922-3 NBU 922-3	Gee Oil & 8th Street - De LL PAD - VELL PAD INTI 1922-35F1CS, NBU 92: 05F4CS, NBU 92: 05E4BS,	ERFERENCE J 922-35516S, N 2-35C1CS, N 12-35E1BS, N 2-35E4CS & N TION 35, T9S	22-3 PLAT 6, NBU 9 BU 922-3 BU 922-3 BU 922-3 IBU 922-3	0202 5F 022-35C4CS 35F4BS, 35D4BS, 35E1CS,		CONSU 2155 Not Sherida Phone :	JLTIN rth Ma n, WY 307-6	ain Stre 8280	et 1	DATI 4-8-1 DATI 4-19-	ENGI 209 E SURV 13 E DRAV -13	NORTH 3 EYED:	G & LANE SURVEYED DRAWN B Date Last R 4-18-13 J.G	ERNAL, U BY: W.W Y: T.J.R. evised:	VEYING UTAH 840 V.	•

			SURFACE PO	SITION					В	OTTOM HOLE		
WELL NAME	NA LATITUDE	D83 LONGITI	UDE LATITU	NAD27	CITUDE	FOOTAGES	LATIT	NAD	LONGITUDE	NAI LATITUDE	LONGITUDE	EOOTACES
NBU	39°59'39.471		.866" 39°59'39	.596" 109°2	4'34.410"	1992' FNL	39°59'5	0.496"	109°24'49.581"	39°59'50.621"	109°24'47.124"	875' FNL
922-35D4BS NBU	39.994298° 39°59'39.404	109.41024 109°24'36			09558° 4'34.505"	1811' FWL 1999' FNL	39.997. 39°59'4		109.413772° 109°24'49.388"	39.997395° 39°59'47.212"	109.413090° 109°24'46.932"	821' FWL 1220' FNL
922-35D4CS	39.994279°	109.41026	57° 39.99431	3° 109.4	09585°	1804' FWL	39.996	413°	109.413719°	39.996448°	109.413037°	836¹ FWL
NBU 922-35E1BS	39°59'39.337 39.994260°	109°24'37 109.41029			4'34.600" 09611°	2005' FNL 1796' FWL	39°59' ² 39.995		109°24'49.312" 109.413698°	39°59'44.031" 39.995564°	109°24'46.855" 109.413015°	1542' FNL 842' FWL
NBU 922-35E1CS	39°59'39.271 39.994242°	109°24'37 109.41031			4'34.694" 09637°	2012' FNL 1789' FWL	39°59'4 39.994		109°24'49.492" 109.413748°	39°59'40.662" 39.994628°	109°24'47.036" 109.413065°	1883' FNL 828' FWL
NBU	39°59'39.204	" 109°24'37	.244" 39°59'39	.328" 109°2	4'34.789"	2019' FNL	39°59'3	37.227"	109°24'49.582"	39°59'37.352"	109°24'47.126"	2218' FNL
922-35E4BS NBU	39.994223° 39°59'39.137	109.41034 109°24'37		.261" 109.4 .261" 109°2	09664° .4'34.883"	1781' FWL 2026' FNL	39.993 39°59'3		109.413773° 109°24'49.672"	39.993709° 39°59'34.042"	109.413091° 109°24'47.217"	821' FWL 2553' FNL
922-35E4CS NBU	39.994205° 39°59'39.070	109.41037	72° 39.99423	l l	09690°	1774' FWL	39.992 39°59'3	755°	109.413798°	39.992789°	109.413116°	814' FWL
922-35L1BS	39.39.39.070 39.994186°	109°24'37 109.41039			4'34.9/8" 09716°	2032' FNL 1767' FWL	39.991		109°24'49.526" 109.413757°	39.991954°	109°24'47.071" 109.413075°	2426' FSL 825' FWL
				1		From Surface				=		
WELL NAME NBU	NORTH	EAST	WELL NAME NBU	NORTH	EAS	NIDII	NAME	NORT		NBU WELL NAM		EAST
922-35D4BS	1115.3	-990.5'	922-35D4CS	777.2	-967.	922-3		461.		922-35E1C	127.7	-960.9'
WELL NAME NBU	-200.6 ¹	-960.4	NBU NAME	-528.8	-959.	NIDII	NAME	NORT -826.		-		,
922-35E4BS			922-35E4CS		-939.	922-3	5L1BS	-020.	4' -941.0'			
				•	`			-09	30-	<u>-</u> 0	.09	
	\	42525	2556° Hole) 060.32'	,	A.	1/2	Josoff N	-		_		7
	N ₆	B _{O/1} .8	25~	1/5>	(0 %)	18. 76083° 15.47.337	300	378.39.740/6 100/10/6/6/6/6/6/6/6/6/6/6/6/6/6/6/6/6/6	<u> </u>	SCALE		 A 7
	1.70	28/11 /	40/-		A SOUTH	o. >60 \	(25.0g	5,0,30				/ V
		"W.7) (e)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(1/2003°)	1/2	19/20	6/2			
		. (¹⁶⁰ .32/~ [15%	\	, 120%	ソ			
				`\		*/.33>		137				M
				``	\ \	.	\		×/	(A)	1,	
						`_	`,		`\	See Sheet 16A		
			Az:	=277.567	7500	`\			`\	See 3 1	NAU 922-35, 145 922-35, 165 922-35, 165 923-35, 165 35, 165	<u>/ / </u>
		_ /	(To I	30ttom H	ole)	·	`\		10, 10		922 35 SKIB	3/
		T^{-}		50ttom H 57"W - 9	969.37			`	10	1, 180 23	the age see a	
		/						` ^	6 X X	180 32 33 5 8 6 9 5 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	AU SAN STORES	
		/						10 X	1	180 932 35 16 93		
		/	258.20278° Rottom Hol					-()	1/8/	0. 45 7.0		
	/	AZ=	258.20276 Bottom Hol 210"W - 98	e) 1 12'		. — — -			180 933 331 18 180 933 331 18	~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	/	(101) 1001-	Bottom Hol 2'10"W - 98	1.12 -			//	<i>'</i>	186 0 355		8 / /	
	/	_ 5/8_12	AZ 241.1 TO Botto! S61°08'51'	.0°		_/_			المحري المحري			
	(1 N	1750 (e)	91'				, 13, 25			, \
	\		1=241.	4 4000						, C.Q.		
			TO 8061	W.		//33				-		
			TO 80 51	70750° le 3000 Hole 2711/1/2	23//	433,4						
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10/30/01e/ 2/11/10/2/		630						
		_/	1 80°		PICATO!							
	, ,	/	RI BO	\\// \//							IS THE WEST I CTION 35, T9S	
			548×								TAKEN FROM	
											NG SATELLITE	D 6 ID 4 /
	Gee Oil & 8th Street - De		Onshore,	LP					OBSEK	VATIONS TO	BEAR N00°01'	טט ۷۷.
				<b>=</b>   -		609		1-	AADEDI	INIF	14	35) 789-1365
	L PAD -			<u> </u>	1	- 009		- 11	MBERL NGINEERIN		4) SURVEYINC	· ·
	ELL PAD INT		PLAT 6, NBU 922-35C40	cs.							NAL, UTAH 840	*
NBU 922-3	35C4BS, NBU 92	2-35C1CS, NI		´		ULTING, LL		DATE 4-8-1	SURVEYED:	SURVEYED B	Y: W.W.	SHEET NO:
NBU 922-3	35D4CS, NBU 92	2-35E1BS, NI	BU 922-35E1CS,			orth Main Stream, WY 8280		DATE	DRAWN:	DRAWN BY:	TIR	4 C D
NIDIT 022.2	SE4BS, NBU 92:	. DELACE O N		- 11	JIICIIU				n - 13			ILK
LC	OCATED IN SEC L.B.&M., UINTA	TION 35, T9S	, R22E,			307-674-060 07-674-0182	19	4-19-	13 CALE: 1" = 60'	Date Last Rev	icad:	16B OF 27









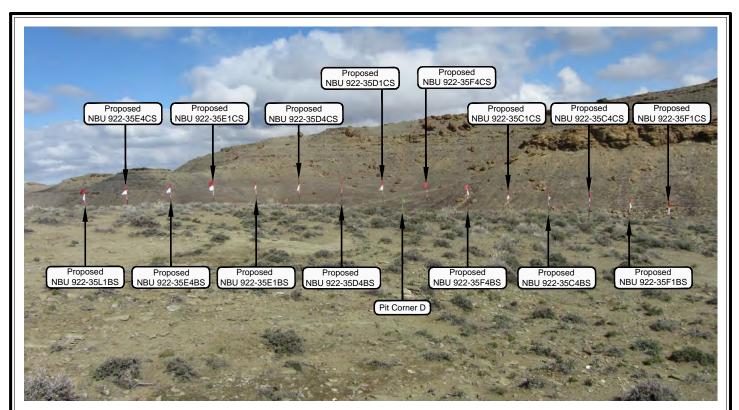


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

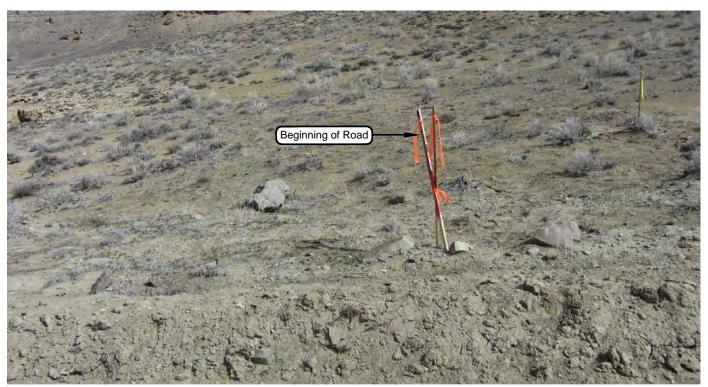


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

#### **CAMERA ANGLE: NORTHERLY**

#### Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

#### WELL PAD - NBU 922-35F

#### **LOCATION PHOTOS**

NBU 922-35F1CS, NBU 922-35F1BS, NBU 922-35C4CS, NBU 922-35C4BS, NBU 922-35C1CS, NBU 922-35F4BS, NBU 922-35F4CS, NBU 922-35D1CS, NBU 922-35D4BS, NBU 922-35D4CS, NBU 922-35E1BS, NBU 922-35E1CS, NBU 922-35E4BS, NBU 922-35E4CS & NBU 922-35L1BS LOCATED IN SECTION 35, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.



#### CONSULTING, LLC 2155 North Main Street Sheridan, WY 82801 Phone 307-674-0609

Fax 307-674-0182

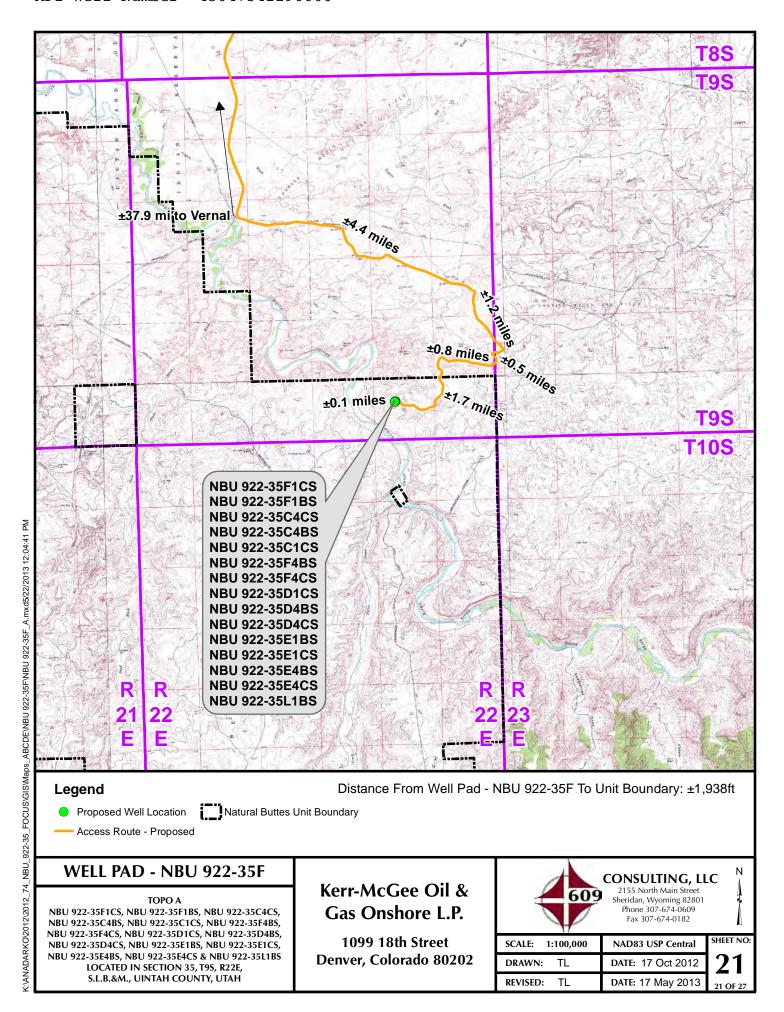
#### TIMBERLINE

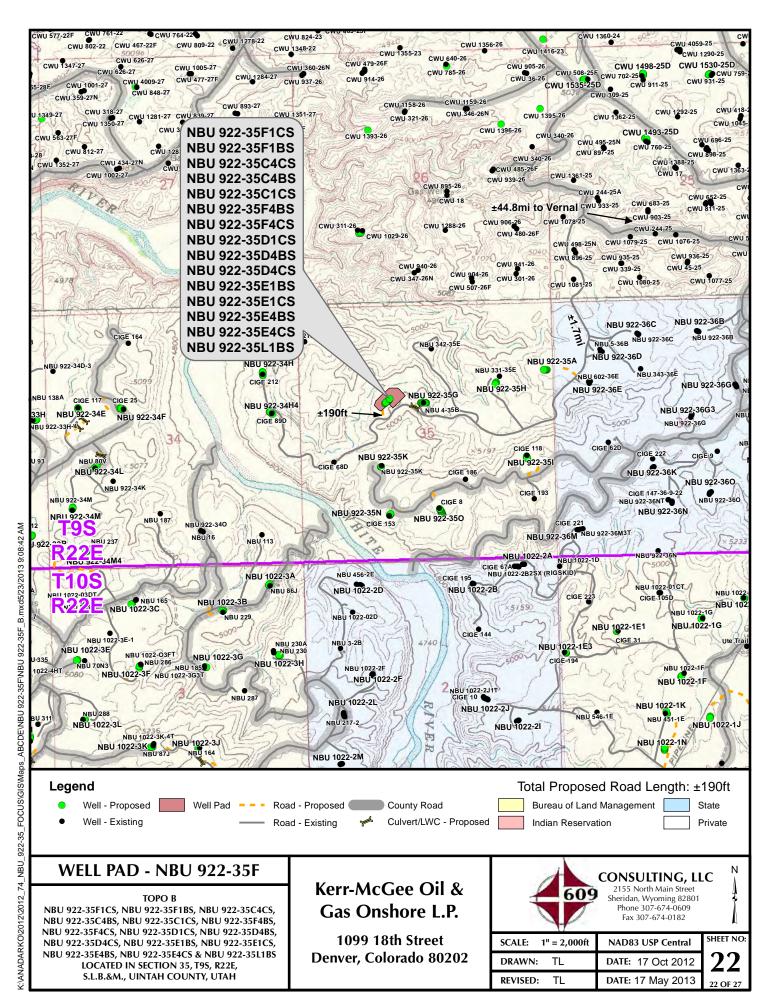
(435) 789-1365

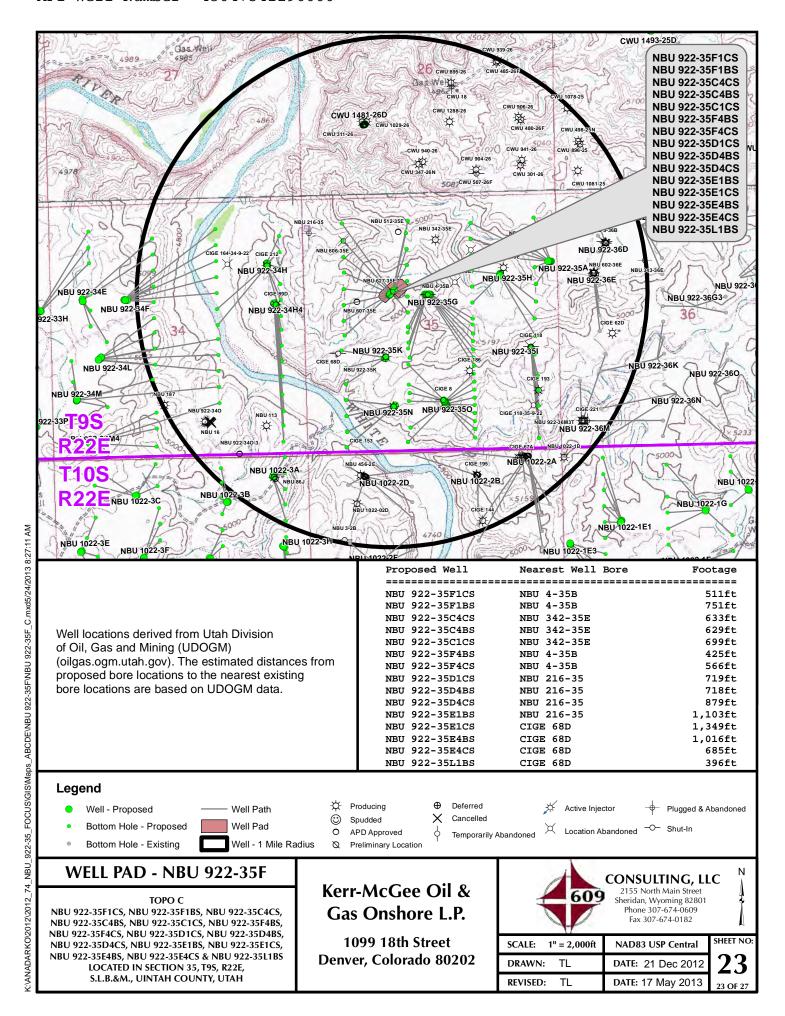
20 OF 27

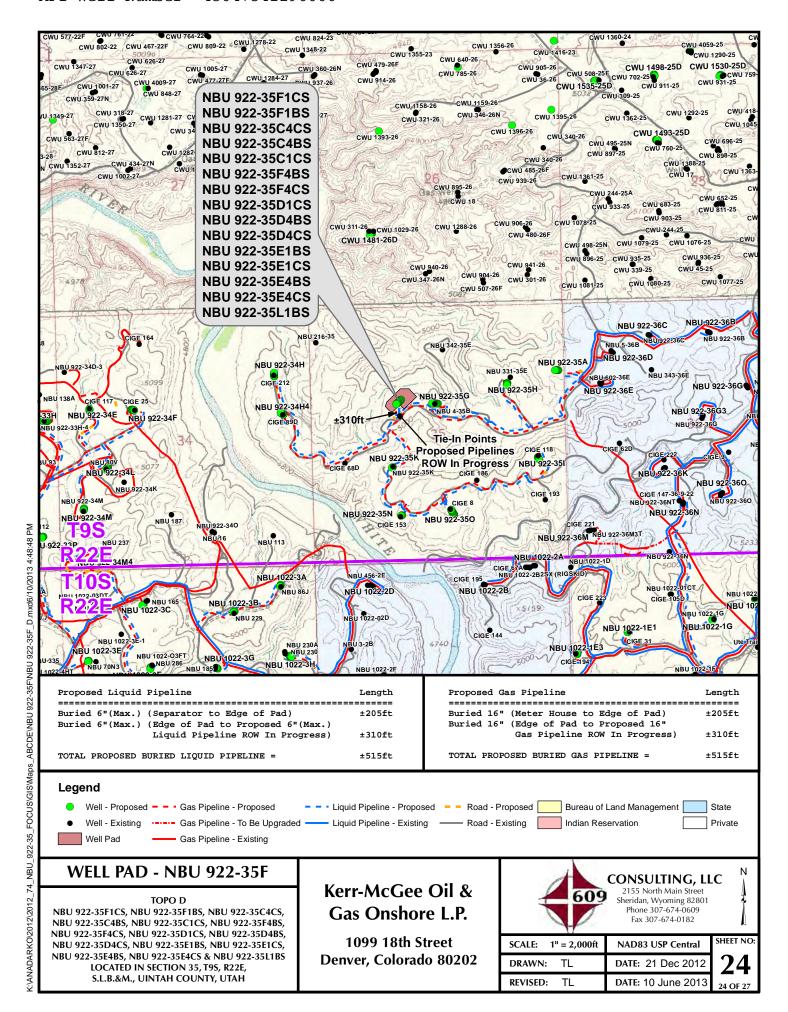
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

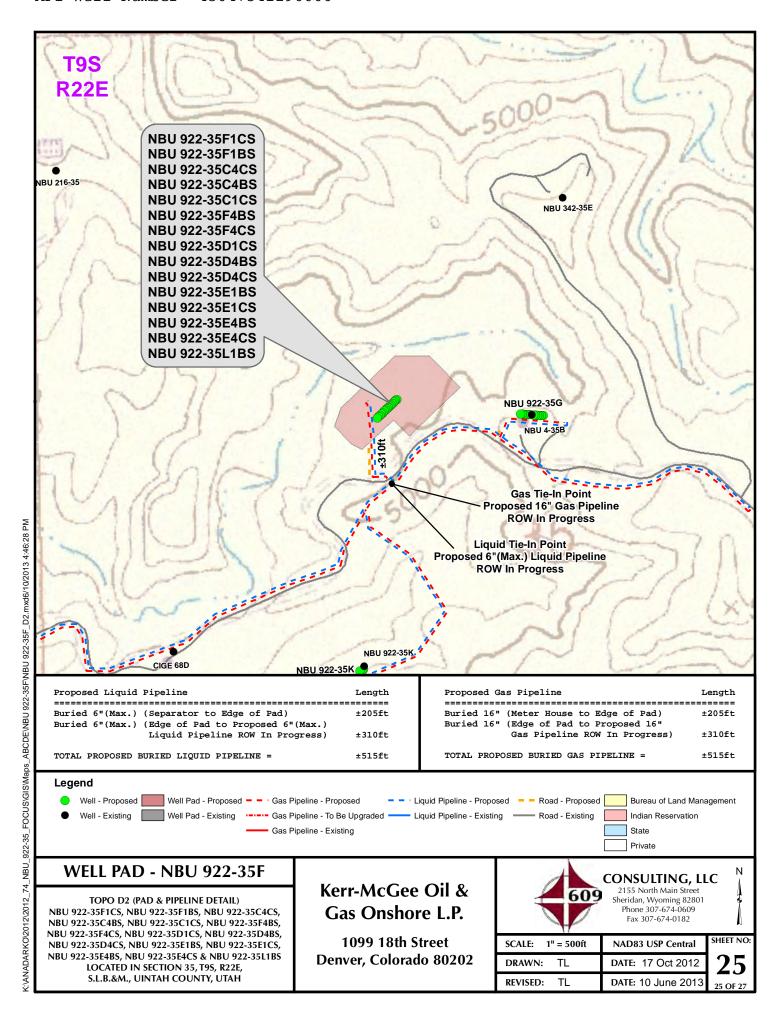
DATE PHOTOS TAKEN: 4-8-13	PHOTOS TAKEN BY: W.W.	SHEET NO:
DATE DRAWN: 4-19-13	DRAWN BY: T.J.R.	20
Date Last Revised: 4-18-13	J.G.C.	20 OF 27

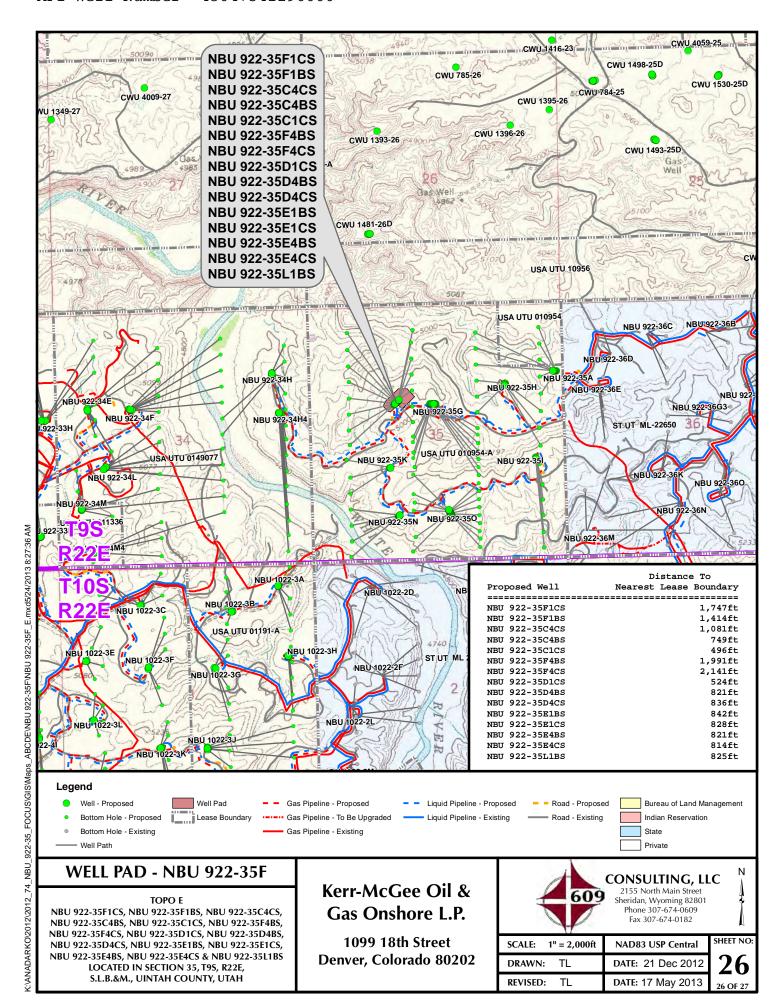












pad.

Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 922-35F WELLS – NBU 922-35F1CS, NBU 922-35F1BS, NBU 922-35C4CS, NBU 922-35C4BS, NBU 922-35C1CS, NBU 922-35F4BS, NBU 922-35F4CS, NBU 922-35D1CS, NBU 922-35D4BS, NBU 922-35D4CS, NBU 922-35E1BS, NBU 922-35E1CS,

NBU 922-35E4BS, NBU 922-35E4CS & NBU 922-35L1BS Section 35, T9S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southerly, then southeasterly direction along the Seven Sisters Road approximately 1.2 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 0.5 miles to a second Class D County Road to the west. Exit right and proceed in a westerly direction along the second Class D County Road approximately 0.8 miles to a service road to the south. Exit left and proceed in a southerly, then westerly direction along the service road approximately 1.7 miles to the proposed access road to the north. Follow road flags in a northerly direction approximately 190 feet to the proposed well

Total distance from Vernal, Utah to the proposed well location is approximately 46.6 miles in a southerly direction.

**SHEET 27 OF 27** 

API Well Number: 43047 Project OUTAG - UTM (feet), NAD27, Zone 12N

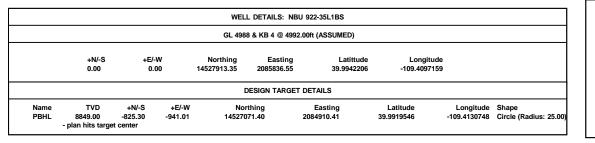
Scientific Drilling

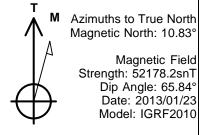
Site: NBU 922-35F PAD Well: NBU 922-35L1BS

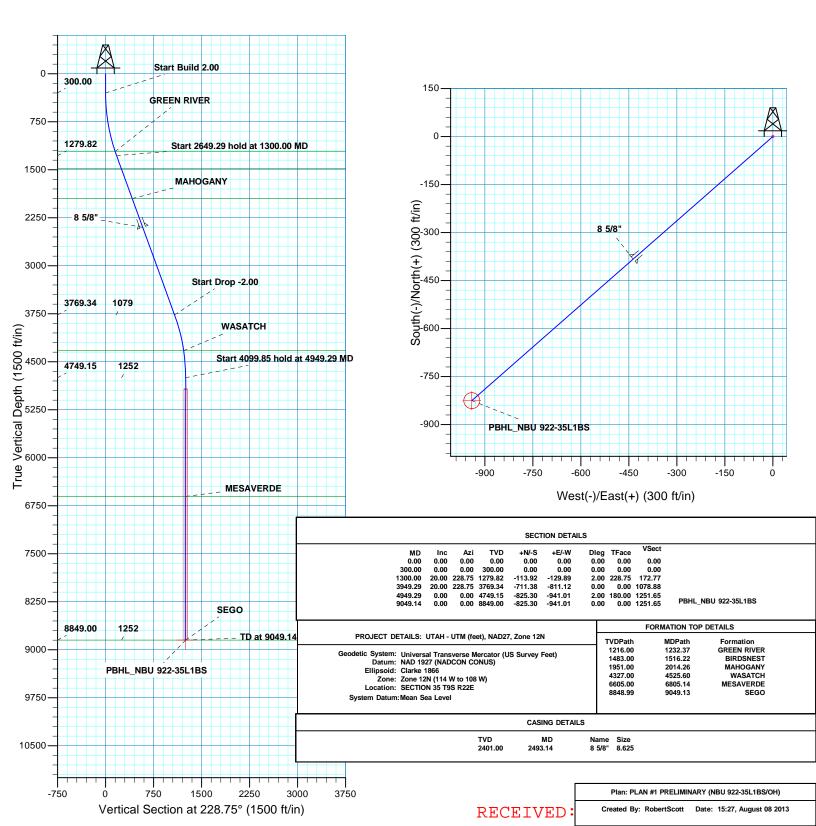
Wellbore: OH

Design: PLAN #1 PRELIMINARY











## **US ROCKIES REGION PLANNING**

UTAH - UTM (feet), NAD27, Zone 12N NBU 922-35F PAD NBU 922-35L1BS

OH

Plan: PLAN #1 PRELIMINARY

## **Standard Planning Report**

08 August, 2013





# **SDI**Planning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-35F PAD

 Well:
 NBU 922-35L1BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well NBU 922-35L1BS

GL 4988 & KB 4 @ 4992.00ft (ASSUMED) GL 4988 & KB 4 @ 4992.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

 Geo Datum:
 NAD 1927 (NADCON CONUS)

 Map Zone:
 Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 922-35F PAD, SECTION 35 T9S R22E

Northing: 14,527,961.62 usft Site Position: Latitude: 39.9943506 From: Lat/Long Easting: 2,085,887.24 usft Longitude: -109.4095319 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.02 13.200 in

System Datum:

Well NBU 922-35L1BS, 2032 FNL 1767 FWL

 Well Position
 +N/-S
 -47.35 ft
 Northing:
 14,527,913.36 usft
 Latitude:
 39.9942206

 +E/-W
 -51.55 ft
 Easting:
 2,085,836.55 usft
 Longitude:
 -109.4097159

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,988.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 2013/01/23 10.83 65.84 52,178

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 228.75

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	228.75	1,279.82	-113.92	-129.89	2.00	2.00	0.00	228.75	
3,949.29	20.00	228.75	3,769.34	-711.38	-811.12	0.00	0.00	0.00	0.00	
4,949.29	0.00	0.00	4,749.15	-825.30	-941.01	2.00	-2.00	0.00	180.00	
9,049.14	0.00	0.00	8,849.00	-825.30	-941.01	0.00	0.00	0.00	0.00 PE	3HL_NBU 922-35L



## **SDI** Planning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-35F PAD

 Well:
 NBU 922-35L1BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well NBU 922-35L1BS

GL 4988 & KB 4 @ 4992.00ft (ASSUMED) GL 4988 & KB 4 @ 4992.00ft (ASSUMED)

True

Minimum Curvature

ned Survey	/									
Measu Dept (ft)	h Inclii	nation (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start E	Build 2.00									
40	00.00	2.00	228.75	399.98	-1.15	-1.31	1.75	2.00	2.00	0.00
		4.00	200 75	100.01	4.00	- 0-	0.00	0.00	0.00	0.00
	00.00	4.00	228.75	499.84	-4.60	-5.25	6.98	2.00	2.00	0.00
60	00.00	6.00	228.75	599.45	-10.35	-11.80	15.69	2.00	2.00	0.00
70	00.00	8.00	228.75	698.70	-18.38	-20.96	27.88	2.00	2.00	0.00
80	00.00	10.00	228.75	797.47	-28.70	-32.72	43.52	2.00	2.00	0.00
	00.00	12.00	228.75	895.62	-41.28	-47.07	62.60	2.00	2.00	0.00
	0.00	12.00	220.70		11.20	17.07	02.00	2.00	2.00	0.00
1,00	00.00	14.00	228.75	993.06	-56.11	-63.98	85.10	2.00	2.00	0.00
	00.00	16.00	228.75	1,089.64	-73.17	-83.43	110.98	2.00	2.00	0.00
	00.00	18.00	228.75	1,185.27	-92.45	-105.41	140.21	2.00	2.00	0.00
	32.37		228.75	1,216.00	-92.45 -99.16	-103.41	150.39	2.00	2.00	0.00
		18.65	220.75	1,216.00	-99.16	-113.07	150.39	2.00	2.00	0.00
GREE	N RIVER									
1,30	00.00	20.00	228.75	1,279.82	-113.92	-129.89	172.77	2.00	2.00	0.00
Start 3	2649.29 hold a	at 1300 00	MD							
Otal t 2	1043.23 HOIG	1000.00	III D							
1,40	00.00	20.00	228.75	1,373.78	-136.47	-155.60	206.97	0.00	0.00	0.00
	00.00	20.00	228.75	1,467.75	-159.02	-181.32	241.17	0.00	0.00	0.00
	6.22	20.00	228.75	1,483.00	-162.68	-185.49	246.72	0.00	0.00	0.00
		20.00	220.73	1,405.00	-102.00	-100.49	240.72	0.00	0.00	0.00
BIRDS	SNEST									
1,60	00.00	20.00	228.75	1,561.72	-181.57	-207.03	275.37	0.00	0.00	0.00
1.70	00.00	20.00	228.75	1,655.69	-204.12	-232.75	309.58	0.00	0.00	0.00
1,80	00.00	20.00	228.75	1,749.66	-226.68	-258.46	343.78	0.00	0.00	0.00
1,90	00.00	20.00	228.75	1,843.63	-249.23	-284.17	377.98	0.00	0.00	0.00
2.00	00.00	20.00	228.75	1,937.60	-271.78	-309.89	412.18	0.00	0.00	0.00
	4.26	20.00	228.75	1,951.00	-275.00	-313.55	417.06	0.00	0.00	0.00
		20.00	220.70	1,001.00	270.00	010.00	417.00	0.00	0.00	0.00
	GANY									
2,10	00.00	20.00	228.75	2,031.57	-294.33	-335.60	446.38	0.00	0.00	0.00
0.00	00.00	20.00	220.75	0.405.54	240.00	204.24	400.50	0.00	0.00	0.00
	00.00	20.00	228.75	2,125.54	-316.88	-361.31	480.59	0.00	0.00	0.00
	00.00	20.00	228.75	2,219.51	-339.43	-387.03	514.79	0.00	0.00	0.00
2,40	00.00	20.00	228.75	2,313.48	-361.99	-412.74	548.99	0.00	0.00	0.00
2,49	3.14	20.00	228.75	2,401.00	-382.99	-436.69	580.85	0.00	0.00	0.00
8 5/8"										
	00.00	20.00	200.75	2 407 45	204.54	400.40	E00 40	0.00	0.00	0.00
2,50	00.00	20.00	228.75	2,407.45	-384.54	-438.46	583.19	0.00	0.00	0.00
2 60	00.00	20.00	228.75	2,501.42	-407.09	-464.17	617.39	0.00	0.00	0.00
	0.00	20.00	228.75	2,595.39	-429.64	-489.88	651.60	0.00	0.00	0.00
	00.00	20.00	228.75	2,689.35	-452.19	-515.60	685.80	0.00	0.00	0.00
	00.00	20.00	228.75	2,783.32	-474.74	-541.31	720.00	0.00	0.00	0.00
3,00	00.00	20.00	228.75	2,877.29	-497.30	-567.02	754.20	0.00	0.00	0.00
0.40	00.00	20.00	200 75	2.074.00	E10.05	E00.74	700 40	0.00	0.00	0.00
	00.00	20.00	228.75	2,971.26	-519.85	-592.74	788.40	0.00	0.00	0.00
	00.00	20.00	228.75	3,065.23	-542.40	-618.45	822.61	0.00	0.00	0.00
	00.00	20.00	228.75	3,159.20	-564.95	-644.17	856.81	0.00	0.00	0.00
3,40	00.00	20.00	228.75	3,253.17	-587.50	-669.88	891.01	0.00	0.00	0.00
	00.00	20.00	228.75	3,347.14	-610.06	-695.59	925.21	0.00	0.00	0.00
*										
3,60	00.00	20.00	228.75	3,441.11	-632.61	-721.31	959.41	0.00	0.00	0.00
3.70	00.00	20.00	228.75	3,535.08	-655.16	-747.02	993.62	0.00	0.00	0.00
	00.00	20.00	228.75	3,629.05	-677.71	-772.73	1,027.82	0.00	0.00	0.00
,	00.00	20.00	228.75	3,723.02	-700.26	-798.45	1,062.02	0.00	0.00	0.00
	19.29	20.00	228.75	3,769.34	-711.38	-811.12	1,078.88	0.00	0.00	0.00
Start I	Drop -2.00									
	•									
	00.00	18.99	228.75	3,817.14	-722.53	-823.84	1,095.80	2.00	-2.00	0.00



## **SDI** Planning Report



Database: EDM5000-RobertS-Local Company: US ROCKIES REGION P

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-35F PAD

 Well:
 NBU 922-35L1BS

Wellbore: OH

Project:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well NBU 922-35L1BS

GL 4988 & KB 4 @ 4992.00ft (ASSUMED) GL 4988 & KB 4 @ 4992.00ft (ASSUMED)

True

Minimum Curvature

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.00	16.99	228.75	3,912.25	-742.89	-847.06	1,126.68	2.00	-2.00	0.00
4,200.00	14.99	228.75	4,008.37	-761.05	-867.76	1,154.22	2.00	-2.00	0.00
4,300.00	12.99	228.75	4,105.40	-776.99	-885.93	1,178.38	2.00	-2.00	0.00
4,400.00	10.99	228.75	4,203.22	-790.68	-901.54	1,199.15	2.00	-2.00	0.00
4,500.00	8.99	228.75	4,301.70	-802.11	-914.58	1,216.49	2.00	-2.00	0.00
4,525.60	8.47	228.75	4,327.00	-804.67	-917.50	1,220.37	2.00	-2.00	0.00
WASATCH			.,			.,			
4,600.00	6.99	228.75	4,400.72	-811.27	-925.02	1,230.38	2.00	-2.00	0.00
4,700.00	4.99	228.75	4,500.17	-818.15	-932.86	1,240.81	2.00	-2.00	0.00
4,800.00	2.99	228.75	4,599.93	-822.73	-938.09	1,247.76	2.00	-2.00	0.00
4,000.00	2.99	220.75	4,599.95	-022.73	-936.09	1,247.70	2.00	-2.00	0.00
4,900.00	0.99	228.75	4,699.86	-825.02	-940.70	1,251.22	2.00	-2.00	0.00
4,949.29	0.00	0.00	4,749.15	-825.30	-941.01	1,251.65	2.00	-2.00	0.00
Start 4099.8	5 hold at 4949.29	MD							
5,000.00	0.00	0.00	4,799.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,100.00	0.00	0.00	4,899.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,200.00	0.00	0.00	4,999.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,300.00	0.00	0.00	5,099.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,400.00	0.00	0.00	5,199.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,500.00	0.00	0.00	5,299.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,600.00	0.00	0.00	5,399.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,700.00	0.00	0.00	5,499.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,800.00	0.00	0.00	5,599.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
5,900.00	0.00	0.00	5,699.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,000.00	0.00	0.00	5,799.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,100.00	0.00	0.00	5,899.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,200.00	0.00	0.00	5,999.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,300.00	0.00	0.00	6,099.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,400.00	0.00	0.00	6,199.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,500.00	0.00	0.00	6,299.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,600.00	0.00	0.00	6,399.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,700.00	0.00	0.00	6,499.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
0,700.00	0.00	0.00	0,499.00	-023.30	-9-1.01	1,231.03	0.00	0.00	0.00
6,800.00	0.00	0.00	6,599.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
6,805.14	0.00	0.00	6,605.00	-825.30	-941.01	1,251.65	0.00	0.00	0.00
MESAVERD	E								
6,900.00	0.00	0.00	6,699.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
7,000.00	0.00	0.00	6,799.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
7,100.00	0.00	0.00	6,899.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
7.200.00	0.00	0.00	6,999.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
7,200.00	0.00		,	-825.30 -825.30		,	0.00	0.00	0.00
7,300.00	0.00	0.00 0.00	7,099.86 7,199.86	-825.30 -825.30	-941.01 -941.01	1,251.65 1,251.65	0.00		0.00
7,400.00	0.00	0.00	7,199.86	-825.30 -825.30	-941.01 -941.01	1,251.65	0.00	0.00 0.00	0.00
7,500.00	0.00	0.00	7,299.86 7,399.86	-825.30 -825.30	-941.01 -941.01	1,251.65	0.00	0.00	0.00
00.000, 1	0.00	0.00	1,399.00	-0∠3.30	-941.01	1,231.03	0.00	0.00	0.00
7,700.00	0.00	0.00	7,499.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
7,800.00	0.00	0.00	7,599.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
7,900.00	0.00	0.00	7,699.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,000.00	0.00	0.00	7,799.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,100.00	0.00	0.00	7,899.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
0 000 00	0.00	0.00	7 000 00	005.00	044.04		0.00	0.00	0.00
8,200.00	0.00	0.00	7,999.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,300.00	0.00	0.00	8,099.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,400.00	0.00	0.00	8,199.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,500.00	0.00	0.00	8,299.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,600.00	0.00	0.00	8,399.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,700.00	0.00	0.00	8,499.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00



# **SDI**Planning Report



Database: Company:

Well:

EDM5000-RobertS-Local

NBU 922-35L1BS

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Project:
 UTAH - UTM (feet),

 Site:
 NBU 922-35F PAD

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-35L1BS

GL 4988 & KB 4 @ 4992.00ft (ASSUMED) GL 4988 & KB 4 @ 4992.00ft (ASSUMED)

True

Minimum Curvature

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,599.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
8,900.00	0.00	0.00	8,699.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
9,000.00	0.00	0.00	8,799.86	-825.30	-941.01	1,251.65	0.00	0.00	0.00
9,049.13	0.00	0.00	8,848.99	-825.30	-941.01	1,251.65	0.00	0.00	0.00
SEGO									
9,049.14	0.00	0.00	8,849.00	-825.30	-941.01	1,251.65	0.00	0.00	0.00
TD at 9049.1	4 - PBHL NBU 9	922-35L1BS							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-35L1B\$ - plan hits target cent - Circle (radius 25.00		0.00	8,849.00	-825.30	-941.01	14,527,071.40	2,084,910.41	39.9919546	-109.4130748

Casing Points					
	Measured	Vertical		Casing	Hole
	Depth	Depth		Diameter	Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,493.14	2,401.00 8 5/8"		8.625	11.000

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,232.37	1,216.00	GREEN RIVER			
	1,516.22	1,483.00	BIRDSNEST			
	2,014.26	1,951.00	MAHOGANY			
	4,525.60	4,327.00	WASATCH			
	6,805.14	6,605.00	MESAVERDE			
	9,049.13	8,848.99	SEGO		0.00	

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-113.92	-129.89	Start 2649.29 hold at 1300.00 MD
3,949.29	3,769.34	-711.38	-811.12	Start Drop -2.00
4,949.29	4,749.15	-825.30	-941.01	Start 4099.85 hold at 4949.29 MD
9,049.14	8,849.00	-825.30	-941.01	TD at 9049.14

NBU 922-35F Pad

1 of 7

## Kerr-McGee Oil & Gas Onshore, L.P.

## NBU 922-35F Pad

NBU 922-35C1CS

Surface: 1965 FNL / 1840 FWL **SENW** BHL: 496 FNL / 2194 FWL

**NENW** 

NBU 922-35C4BS

Surface: 1958 FNL / 1848 FWL SENW **NENW** 

BHL: 749 FNL / 2150 FWL

NBU 922-35C4CS

Surface: 1951 FNL / 1855 FWL SENW

BHL: 1081 FNL / 2150 FWL **NENW** 

NBU 922-35D1CS

Surface: 1985 FNL / 1818 FWL **SENW** 

BHL: 524 FNL / 820 FWL **NWNW** 

NBU 922-35D4BS

Surface: 1992 FNL / 1811 FWL **SENW** 

BHL: 875 FNL / 821 FWL NWNW

NBU 922-35D4CS

Surface: 1999 FNL / 1804 FWL SENW

BHL: 1220 FNL / 836 FWL NWNW

NBU 922-35E1BS

Surface: 2005 FNL / 1796 FWL **SENW** 

BHL: 1542 FNL / 842 FWL **SWNW** 

NBU 922-35E1CS

Surface: 2012 FNL / 1789 FWL **SENW** 

BHL: 1883 FNL / 828 FWL **SWNW** 

NBU 922-35E4BS

Surface: 2019 FNL / 1781 FWL **SENW** 

BHL: 2218 FNL / 821 FWL SENW

NBU 922-35E4CS

Surface: 2026 FNL / 1774 FWL SENW

BHL: 2553 FNL / 814 FWL **SWNW** 

NBU 922-35F1BS

Surface: 1944 FNL / 1863 FWL **SENW** 

BHL: 1414 FNL / 2150 FWL **SENW** 

Surface Use Plan of Operations

NBU 922-35F Pad 2 of 7

NBU 922-35F1CS

Surface: 1938 FNL / 1870 FWL **SENW** BHL: 1747 FNL / 2150 FWL **SENW** 

NBU 922-35F4BS

Surface: 1972 FNL / 1833 FWL **SENW** BHL: 2079 FNL / 2150 FWL **SENW** 

NBU 922-35F4CS

Surface: 1978 FNL / 1826 FWL **SENW** BHL: 2412 FNL / 2150 FWL **SENW** 

NBU 922-35L1BS

Surface: 2032 FNL / 1767 FWL **SENW** BHL: 2426 FSL / 825 FWL **NWSW** 

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

The first on-site meeting was held on November 6, 2012. Present were:

- Aaron Roe, Tyler Cox and Dave Gordon BLM;
- Mitch Batty Timberline Engineering & Land Surveying, Inc.;
- Randy Townley, Rod Anderson, Charles Chase, Chantill Recker, Lindsey Frazier and Cara Mahler Kerr-McGee;
- Jacob Dunham 609 Consulting Inc.:
- Alan Rabinoff- ICF International

The second on-site meeting was held on March 14, 2013. Present were:

- Aaron Roe, Tyler Cox and Dave Gordon BLM;
- Mitch Batty Timberline Engineering & Land Surveying, Inc.;
- Cara Mahler, Tom Lee, Sandi Mitchell, Doreen Green, Doyle Holmes, Chantill Recker, Howdy Brown and Hal Blanchard - Kerr-McGee;

## **Existing Roads:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

#### **New or Reconstructed Access Roads:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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#### The following segments are "on-lease"

±190' (0.04 miles) – Section 35 T9S R22E (SE/4 NW/4) – On-lease UTU-010954-A, from the edge of pad to the T-intersection in SE/4 NW/4. Please refer to Topo B.

#### **C.** Location of Existing Wells:

Please refer to Topo C for exiting wells.

#### D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will be a brand new location and there are no existing wells on location. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

#### **GAS GATHERING**

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is  $\pm 5,410$ ' and the individual segments are broken up as follows:

#### The following segments are "onlease", no ROW needed.

- $\pm 205$ ' (0.04 miles) Section 35 T9S R22E (SE/4 NW/4) On-lease UTU-010954-A, BLM surface, New 16'' buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±310' (0.06 miles) Section 35 T9S R22E (SE/4 NW/4) On-lease UTU-010954-A, BLM surface, New 16" buried gas gathering pipeline from the edge of the pad tie-in to the proposed buried 16" gas gathering pipeline ROW in progress at the NBU 922-35K Pad intersection. Please refer to Exhibit A, Line 5.

The following segments require a ROW. Anadarko Uintah Midstream (AUM) will apply for an SF-299/POD under separate cover. Listed below is the gas gathering pipeline distances:

- ±4,365' (0.8 miles) Section 35 T9S R22E (SE/4 NW/4) On-lease UTU-010954-A, BLM surface, New 16" buried gas gathering pipeline from the NBU 922-35K Pad pipeline intersection traveling east to the eastern lease boundary. Please refer to Exhibit A-Green highlighted.
  - ±530' (0.1 miles) Section 36 T9S R22E (SW/4 NW/4) On-lease ST UT ML-22650, State surface, New 16" buried gas gathering pipeline from the western lease boundary to tie into the existing buried 16" gas gathering pipeline at the NBU 922-36E Pad. Please refer to Exhibit A- Green highlighted.

#### LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

NBU 922-35F Pad

4 of 7

The total liquid gathering pipeline distance from the separator to the tie in point is  $\pm 5,410$ ' and the individual segments are broken up as follows:

#### The following segments are "onlease", no ROW needed.

- ±205' (0.04 miles) Section 35 T9S R22E (SE/4 NW/4) On-lease UTU-010954-A, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±310' (0.06 miles) Section 35 T9S R22E (SE/4 NW/4) On-lease UTU-010954-A, BLM surface, New 6' buried liquid gathering pipeline from the edge of the pad tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-35K Pad intersection. Please refer to Exhibit B, Line 19.
- ±4,365' (0.8 miles) Section 35 T9S R22E (SE/4 NW/4) On-lease UTU-010954-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-35K Pad pipeline intersection traveling east to the eastern lease boundary. A segment of this pipeline travels cross country, 540' (Exhibit B, Line 5). This pipeline will be used concurrently with the NBU 922-35I, NBU 922-35O, NBU 922-35N, NBU 922-35K, NBU 922-34H, NBU 922-34H4, NBU 922-35G and NBU 922-35H pads. Please refer to Exhibit B, Lines 3-7.

## Kerr-McGee will apply for the appropriate State easements under separate cover. Listed below is the liquid gathering pipeline distances:

±530' (0.1 miles) – Section 36 T9S R22E (SW/4 NW/4) – On-lease ST UT ML-22650, State surface, New 6" buried liquid gathering pipeline from the western lease boundary to tie into the existing buried 6" liquid gathering pipeline at the NBU 922-36E Pad. Please refer to Exhibit B, Lines 1 and 2.

#### **Pipeline Gathering Construction**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

#### E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

#### F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### G. Methods for Handling Waste:

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Surface Use Plan of Operations

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Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Materials Management**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### H. Ancillary Facilities:

NBU 922-35F Pad

No additional ancillary facilities are planned for this location.

#### I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Interim Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Measures Common to Interim and Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Weed Control**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Monitoring**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **K.** Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

Surface Use Plan of Operations

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#### L. Other Information:

NBU 922-35F Pad

### **Cultural and Paleontological Resources**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Resource Reports:**

A Class I literature survey was completed on April 25, 2013 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 13-077.

A paleontological reconnaissance survey was completed on October 27, 2012 by SWCA Environmental Consultants. For additional details please refer to report UT13-14314-88.

Biological field survey was completed on September 20, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-860.

### **Proposed Action Annual Emissions Tables:**

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-35F Pad

Surface Use Plan of Operations

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## M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Sh O. Behn

August 28, 2013



October 31, 2012

Kerr-McGee Oil & Gas Onshore L.P., wholly owned subsidiary of Anadarko Petroleum Corporation, Standard Operating Practice Agreement for the Greater Natural Buttes Field

## **Drilling Program**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations, Onshore Oil and Gas Orders, and the approved plan of operation. As Operator, Kerr-McGee, is fully responsible for actions of subcontractors. A copy of these Standard Operating Practices will be furnished to the field representatives to insure compliance.

#### **BLM Notification Requirements:**

**Location Constructions**: At least 48 hours prior to construction of location and access roads including notification, if applicable, to other surface management agencies, such as Ute Tribe Energy and Mineral Department, State of Utah, or private surface owner(s).

**Location Completion:** Prior to moving on the drilling rig

**Spud Notice:** At least 24 hours prior to spudding the well.

**Casing String and Cementing:** At least 24 hours prior to running casing and cementing all casing.

**BOP & Related Equipment Tests:** At least 24 hours prior to initiating pressure tests.

**First Production Notice:** Within 5 days after a new well begins production; or, within 5 days of when production resumes after a well has been off production for more than 90 days.

Details of the on-site inspection, including date, time, weather conditions, and individuals present, will be submitted with the site-specific Application for Permit to Drill (APD).

### 1. Estimated Tops of Important Geologic Markers:

Formation and depths will be submitted with site-specific APDs.

#### 2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation and depths will be submitted with site-specific APDs.

## 3. Pressure Control Equipment:

Pressure Control Equipment Schematic is attached as appendix F. Any variance will be included in the site-specific APDs.

## 4. Proposed Casing & Cementing Program:

Proposed casing and cementing will be submitted with site-specific APDs.

## 5. Drilling Fluids Program:

Proposed drilling fluids will be submitted with site-specific APDs.

## **6.** Evaluation Program:

Evaluation program will be submitted with site-specific APDs.

#### 7. Abnormal Conditions:

Any abnormal condition will be submitted with site specific APDs.

#### 8. Anticipated Starting Dates:

Drilling is planned to commence within the administrative period of an approved application.

#### 9. Variances:

Kerr-McGee respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2:

#### Variance for air drilling

An air rig is only used by Kerr-McGee to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig and is used to drill and construct the majority of the wellbore.

KMG typically utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while

creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill an 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with an 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

### **Variance for BOPE Requirements**

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

#### **Variance for Mud Material Requirements**

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump, which is located near the reserve pit, will supply the water to the well bore.

#### **Variance for Special Drilling Operation (surface equipment placement)**

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG locations.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

API Well Number: 43047541290000

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

### **Variance for FIT Requirements**

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part B1, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). These wells are not exploratory well and are being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

### 10. Other Information:

Drilling Program will be submitted with site-specific APDs.

### SURFACE USE PROGRAM

### A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing may be performed where excessive rutting or erosion may occur. Dust control may be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines may occupy common disturbance corridors where possible. Where available, roadways may be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor may overlap each other to the maximum extent possible, while maintaining safe and sound

construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Within individual APDs, please refer to Topo B, for existing roads.

### **B.** New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007). The BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to all applicable US Army Corps of Engineers requirements in cooperation with the Utah Division of Water Rights.

New well pads or pad expansions may require construction of a new access road and/or decommissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met Kerr-McGee may use unimproved and/or two-track roads for lease operations and to lessen total disturbance. Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities may be constructed to divert surface water runoff. Drainage features, including culverts, may be constructed or installed prior to commencing other operations, including drilling for facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s). Drainage features will meet the standards of the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007).

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activities will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement and construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

For individual APDs, refer to Topo B.

### **C.** Location of Existing Wells:

For individual APDs, refer to Topo C

### D. Location of Existing and/or Proposed Facilities:

The following will apply if the well is productive: Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee). Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad.

A berm may be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed to hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project- specific APD, ROW or NOS submission.

### **Gas Gathering**

The gas gathering pipeline is made of steel line pipe, surface is bare pipe and buried is of coated with fusion bonded epoxy coating (or equivalent). The individual segments will be denoted in site-specific APDs.

### **Liquid Gathering**

The individual segments will be denoted in site-specific APDs.

### **Pipeline Gathering Construction**

Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. The road and/or well pad may be utilized for construction activities and staging when the pipeline is adjacent to the road or well pad. The area of disturbance during construction from the edge of road or well pad will typically be 30 feet in width. Where pipelines run cross country, the width of disturbance will typically be 45 feet for buried lines and 30 feet for surface lines. In addition, Kerr-McGee requests for a permanent 30 feet disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. If installation cannot occur on the exact location, pipe may be constructed parallel and adjacent to a road and lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment. Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

When installing a buried pipeline, typically topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radio-graphically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or its successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

### The Anadarko Completions Transportation System (ACTS) information:

For individual APDs, refer to Exhibit C for the proposed placement of the ACTS temporary lines.

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit may be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system. Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of completion fluids by utilizing existing reserve pits, or newly constructed completion pits, as well as temporary, surface-laid aluminum liquids transfer lines between pad locations. The pit will be refurbished when a traditional drill pit is used including mix and pile up drill cuttings with dry dirt, bury the original liner in the pit and walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurbish will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

Any hydrocarbons collected will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit.

ACTS will require temporarily laying multiple 6 inch aluminum water transfer lines on the surface between either existing or refurbished reserve pits. The temporary aluminum transfer lines will be utilized to transport completion fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon conclusion of the completion operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee will keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other completion jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

### E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources: JD Field Services:

Green River: 1087' FSL & 1020' FEL, Sec. 15 – T2N – R22E

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RN Industries:

High Pressure: 705' FNL & 675' FWL, Sec. 1 – T6S – R22E

1057' FNL & 390' FWL, Sec. 1 – T6S – R22E 1239' FNL & 52' FEL, Sec. 6 – T6S – R23E

White River: 501' FNL & 1676' FEL, Sec. 9 – T8S – R20E

471' FNL & 1676' FEL, Sec. 9 – T8S – R20E 900' FNL & 550' FEL, Sec. 35 – T9S – R22E 200' FNL & 950' FEL, Sec. 2 – T10S – R22E 275' FSL & 2275' FEL, Sec. 2 – T10S – R22E 122' FSL & 1350' FEL, Sec. 11 – T10S – R22E 1670' FSL & 500' FEL, Sec. 12 – T10S – R22E 959' FNL & 705' FEL, Sec. 13 – T10S – R22E

600' FSL & 900' FEL, Sec. 13 – T10S – R22E

Water Plant: 481' FNL & 2176' FEL, Sec. 9 – T8S – R20E

471' FNL & 2176' FEL, Sec. 9 – T8S – R20E

Frog Pond: 4820' FNL & 1200' FWL, Sec. 33 – T8S – R20E

4850' FNL & 700' FWL, Sec. 33 – T8S – R20E

Blue Tanks: 200' FNL & 405' FEL, Sec. 32 – T4S – R3E

Water will be hauled to location over the roads marked in the individual APD's Maps A and B.

#### F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from Federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

### **G.** Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee maintains a Spill Control and Countermeasure Plan for each applicable location, which includes notification requirements, to the BLM and other appropriate agencies, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a

release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A.

Drill cuttings and/or drilling fluids may be contained in a reserve/completion pit whether a closed loop system is or isn't utilized and cuttings may be buried in the pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

If utilizing a closed loop system, drill cuttings and/or drilling fluids may be stored in above ground containers while on the location. All used drilling fluids may be hauled to Anadarko Petroleum Corporation's Mud Plant where it may be recycled for use at future well locations, hauled to a permitted disposal facility, or solidified for incorporation into the pad during interim reclamation practices. Drill cuttings from a closed loop system may be either hauled to an approved Utah Department of Oil, Gas and Mining Commercial Landfarm Disposal Facility or incorporated into the pad location during interim reclamation.

Pits will be constructed to eliminate the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a reserve/completion pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or completion pit will be lined with a synthetic material 30 mil or thicker liner. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced or netted to prevent wildlife or livestock entry.

Maximum distance between fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

### **Materials Management**

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or

substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used. Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Any produced water separated from recoverable condensate during well operations will be contained in a water tank and will then be transported by pipeline and/or truck to one of the preapproved disposal sites:

RNI in Sec. 5 T9S R22E NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

### H. Ancillary Facilities:

If additional ancillary facilities are planned they will be depicted on site specific APDs.

### I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig,

dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable.

Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits of the individual APDs.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

#### J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or reconfiguration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

### **Interim Reclamation**

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, incorporation of cuttings, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. Stockpiled drill cuttings may also be incorporated into the spoils, recontoured, and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface

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will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

### **Final Reclamation**

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as close as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site and prior to replacing topsoil, final grading and site preparation will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and the surface soil material will be uniformly pitted with longitudinal depressions perpendicular to the natural flow of water where practical. Following site preparation, topsoil will be spread on the location and prepared for seeding.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 to 24 inches where practical, recontoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

### **Measures Common to Interim and Final Reclamation**

Soil tillage will be conducted using a disk in areas needing additional seedbed preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen

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compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur in the fall and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box." Additionally an imprinter seeder may be used. An imprinter seeder creates divots to roughen the surface and collect moisture to aid in seed germination. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed" and noxious weed free seed.

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

<b>Bonanza Area Mix:</b>	Pure Live Seed lbs/acre
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass (Arriba)	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee Plant	0.5
Total	9.75

Natural Buttes Area	Pure Live Seed lbs/acre
Mix Option 1:	Ture Live Seed ibs/acre
Indian Ricegrass (Nezpar)	3
Sandberg bluegrass	0.75
Bottlebrush squirreltail	1
Great Basin Wildrye	0.5
Crested wheatgrass (Ephraim)	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing saltbush	0.75
Forage Kochia	0.25
Total	9.5

Natural Buttes			
<b>Area Mix Option 2:</b>	Pure Live Seed lbs/acre		
Great Basin Wildrye	2.5		
Indian Ricegrass (Nezpar)	0.5		

Crested Wheatgrass	2
Siberian Wheatgrass	2
Bottlebrush Squirreltail	1
Munro Globemallow	0.5
Palmer Penstemon	0.1
Rocky Mtn beeplant	0.5
Western yarrow	0.1
Shadscale	0.5
Forage Kochia	0.5
Total	10.2

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

### **Weed Control**

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Proposal (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

### **Monitoring**

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until

API Well Number: 43047541290000

the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines).

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geodatabase no later than March 1st of the calendar year following the data collection.

### **K.** Surface/Mineral Ownership:

Depicted on site specific APDs.

### L. Other Information:

### **Cultural and Paleontological Resources**

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM or appropriate SMA.

### **Resource Reports**

Appropriate archaeological and paleontological reconnaissance surveys and biological field surveys will be completed and provide to the BLM for individual APDs.

### **Proposed Action Annual Emissions Tables:**

Appendix A through E contains the emission table per pad based on well count.

### M. Lessee's or Operators' Representative & Certification:

Depicted on site specific APDs.

Appendix A:

**Proposed Action Annual Emissions Tables: 4 Well Pad** 

Table 1: Proposed Action Annual Emissions (tons/year) ¹			
Pollutant	Development	Production	Total
NOx	3.8	1.29	5.09
СО	2.2	1.08	3.28
VOC	0.1	15.00	15.10
$SO_2$	0.005	0.01	0.02
$PM_{10}$	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.2E-03	0.12	0.12
Toluene	1.6E-03	0.20	0.20
Ethylbenzene	3.4E-04	0.01	0.01
Xylene	1.1E-03	0.09	0.09
n-Hexane	1.7E-04	0.51	0.51
Formaldehyde	1.3E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison				
		WRAP Phase III 2012	Percentage	
		Uintah Basin	of Proposed	
		Emission	Action to	
	Proposed Action Production	<b>Inventory</b> ^a	WRAP	
Species	Emissions (ton/yr)	(ton/yr)	Phase III	
NOx	5.09	16,547	0.031%	
VOC	15.10	127,495	0.012%	

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

**Appendix B:** 

**Proposed Action Annual Emissions Tables: 5 Well Pad** 

Table 1: Proposed Action Annual Emissions (tons/year) ¹			
Pollutant	Development	Production	Total
NOx	3.8	1.61	5.41
СО	2.2	1.35	3.55
VOC	0.1	18.75	18.85
$SO_2$	0.005	0.01	0.02
$PM_{10}$	1.7	0.14	1.84
PM _{2.5}	0.4	0.06	0.46
Benzene	2.2E-03	0.15	0.15
Toluene	1.6E-03	0.24	0.25
Ethylbenzene	3.4E-04	0.01	0.01
Xylene	1.1E-03	0.11	0.11
n-Hexane	1.7E-04	0.64	0.64
Formaldehyde	1.3E-02	1.62E-04	1.32E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison				
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III	
NOx	5.41	16,547	0.033%	
VOC	18.85	127,495	0.015%	

 $[^]a\ http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html$ 

Appendix C:
Proposed Action Annual Emissions Tables: 6 Well Pad

Table 1: Proposed Action Annual Emissions (tons/year) ¹			
Pollutant	Development	Production	Total
NOx	3.8	1.94	5.74
СО	2.2	1.62	3.82
VOC	0.1	22.50	22.60
$SO_2$	0.005	0.02	0.02
$PM_{10}$	1.7	0.17	1.87
PM _{2.5}	0.4	0.07	0.47
Benzene	2.2E-03	0.18	0.18
Toluene	1.6E-03	0.29	0.29
Ethylbenzene	3.4E-04	0.02	0.02
Xylene	1.1E-03	0.14	0.14
n-Hexane	1.7E-04	0.77	0.77
Formaldehyde	1.3E-02	1.94E-04	1.32E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison				
		WRAP Phase		
		III 2012	Percentage	
		Uintah Basin	of Proposed	
		Emission	Action to	
	Proposed Action Production	<b>Inventory</b> ^a	WRAP	
Species	Emissions (ton/yr)	(ton/yr)	Phase III	
NOx	5.74	16,547	0.035%	
VOC	22.60	127,495	0.018%	

 $[^]a\ http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html$ 

**Appendix D:** 

### **Proposed Action Annual Emissions Tables: 7 Well Pad**

Table 1: Proposed Action Annual Emissions (tons/year) ¹			
Pollutant	Development	Production	Total
NOx	3.8	2.26	6.06
СО	2.2	1.89	4.09
VOC	0.1	26.25	26.35
$SO_2$	0.005	0.02	0.02
$PM_{10}$	1.7	0.19	1.89
PM _{2.5}	0.4	80.0	0.48
Benzene	2.2E-03	0.21	0.21
Toluene	1.6E-03	0.34	0.34
Ethylbenzene	3.4E-04	0.02	0.02
Xylene	1.1E-03	0.16	0.16
n-Hexane	1.7E-04	0.89	0.89
Formaldehyde	1.3E-02	2.27E-04	1.32E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison				
		WRAP Phase		
		III 2012	Percentage	
		Uintah Basin	of Proposed	
		Emission	Action to	
	Proposed Action Production	<b>Inventory</b> ^a	WRAP	
Species	Emissions (ton/yr)	(ton/yr)	Phase III	
NOx	6.06	16,547	0.037%	
VOC	26.35	127,495	0.021%	

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

**Appendix E:** 

### **Proposed Action Annual Emissions Tables: 8 Well Pad**

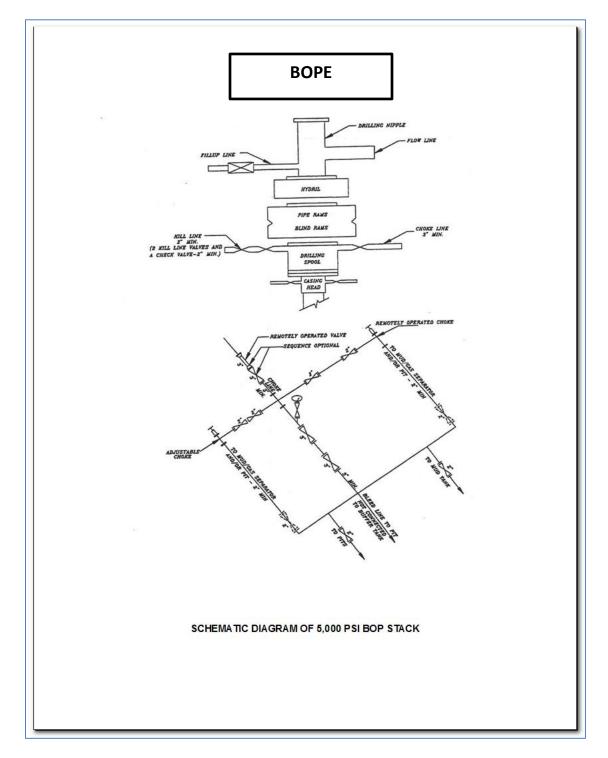
Table 1: Proposed Action Annual Emissions (tons/year) ¹									
Pollutant	Development 1								
NOx	3.8	2.58	6.38						
СО	2.2	2.16	4.36						
VOC	0.1	30.00	30.10						
$SO_2$	0.005	0.02	0.03						
$PM_{10}$	1.7	0.22	1.92						
PM _{2.5}	0.4	0.09	0.49						
Benzene	2.2E-03	0.24	0.24						
Toluene	1.6E-03	0.39	0.39						
Ethylbenzene	3.4E-04	0.02	0.02						
Xylene	1.1E-03	0.18	0.18						
n-Hexane	1.7E-04	1.02	1.02						
Formaldehyde	1.3E-02	2.59E-04	1.33E-02						

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

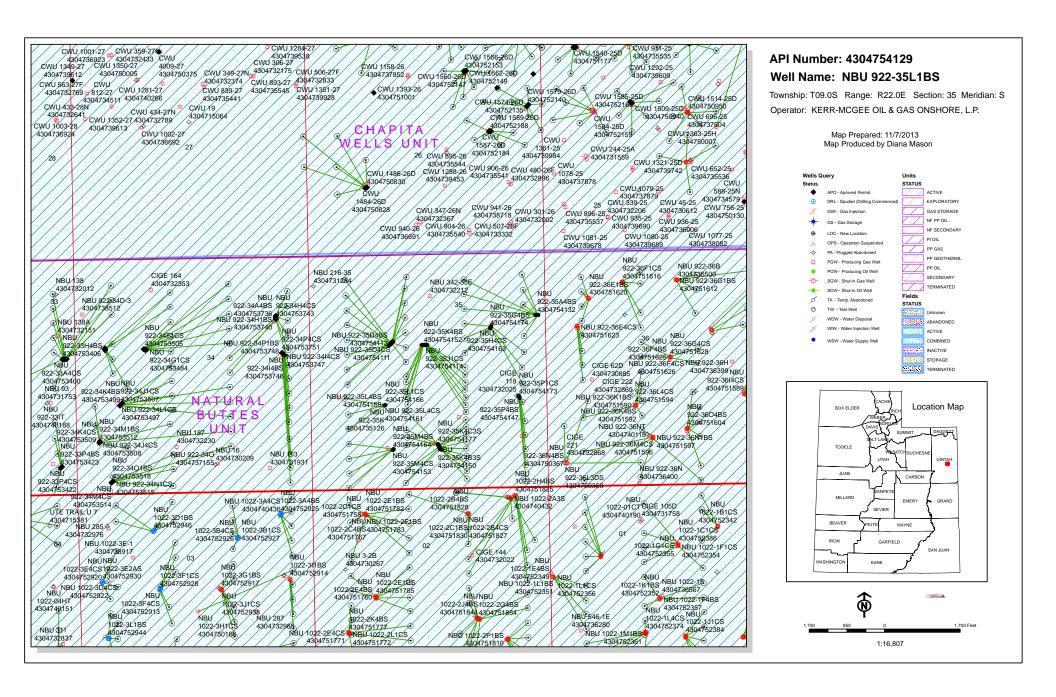
Table 2: Proposed A	Action versus 2012 WRAP Phase III Emi	ssions Inventory	Comparison
		WRAP Phase	<b>D</b>
		III 2012	Percentage
		Uintah Basin Emission	of Proposed Action to
	Proposed Action Production	Inventory ^a	WRAP
Species	<b>Emissions</b> (ton/yr)	(ton/yr)	Phase III
NOx	6.38	16,547	0.039%
VOC	30.10	127,495	0.024%

 $[^]a\ http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html$ 

**Appendix F: Pressure Control Equipment Schematic** 



**END** 



API Well Number: 43047541290000

## **United States Department of the Interior**

### BUREAU OF LAND MANAGEMENT

Utah State Office 440 West 200 South, Suite 500 Salt Lake City, UT 84101

IN REPLY REFER TO: 3160 (UT-922)

November 13, 2013

Memorandum

To: Assistant Field Office Manager Minerals,

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

### **NBU 922-35A PAD**

NDU 322-33A FAL							
43-047-54073	NBU	922-35A1CS		T09S T09S			
43-047-54119	NBU	922-35H1CS		 T09S T09S			
43-047-54120	NBU	922-35H1BS		 T09S T09S			
43-047-54125	NBU	922-35B4CS		 T09S T09S			
43-047-54126	NBU	922-35B4BS		 T09S T09S			
43-047-54127	NBU	922-35B1CS		 T09S T09S			
43-047-54130	NBU	922-35A4CS		 T09S T09S			
43-047-54132		922-35A4BS		 T09S T09S			
<b>NBU 922-35F PAD</b> 43-047-54109		922-35E1CS		 T09S T09S			
43-047-54110	NBU	922-35E1BS		 T09S T09S			
43-047-54111	NBU	922-35D4CS		 T09S T09S			

RECEIVED: November 13, 2013

API #	Ţ	WELL NAME	LOCATION								
(Proposed PZ	WASA	ATCH-MESA VEI	RDE)								
43-047-54112	NBU						R22E R22E				
43-047-54113	NBU						R22E R22E				
43-047-54115	NBU						R22E R22E				
43-047-54116	NBU						R22E R22E				
43-047-54117	NBU						R22E R22E				
43-047-54118	NBU						R22E R22E				
43-047-54121	NBU						R22E R22E				
43-047-54122	NBU	922-35E4BS					R22E R22E				
43-047-54124	NBU						R22E R22E				
43-047-54129	NBU	922-35L1BS					R22E R22E				
43-047-54133	NBU	922-35F4CS	BHL	Sec Sec	35 35	T09S T09S	R22E R22E	1978 2412	FNL FNL	1826 2150	FWL FWL
43-047-54134 NBU 922-35G PAI							R22E R22E				
43-047-54114		922-35J1CS					R22E R22E				
43-047-54123	NBU						R22E R22E				
43-047-54128	NBU	922-35J1B2S					R22E R22E				
43-047-54131	NBU	922-35G4CS	BHL	Sec Sec	35 35	T09S T09S	R22E R22E	2041 2572	FNL FNL	2633 1819	FWL FEL
43-047-54135	NBU						R22E R22E				
43-047-54136	NBU						R22E R22E				
43-047-54137	NBU	922-35J4B2S					R22E R22E				
43-047-54138	NBU	922-35J4BS	BHL	Sec Sec	35 35	T09S T09S	R22E R22E	2034 1744	FNL FSL	2563 1820	FWL FEL
43-047-54139	NBU						R22E R22E				

Page 2

API #	V	WELL NAME	LOCATION								
(Proposed PZ											
43-047-54140	NBU						R22E R22E				
43-047-54141	NBU	922-35K1CS	BHL	Sec Sec	35 35	T09S T09S	R22E R22E	2031 2245	FNL FSL	2533 2150	FWL FWL
43-047-54152		922-35K4BS					R22E R22E				
<b>NBU 922-350 PAI</b> 43-047-54143	NBU	922-35N1BS	BHL	Sec Sec	35 35	T09S T09S	R22E R22E	1018 1198	FSL FSL	2456 2149	FEL FWL
43-047-54146	NBU						R22E R22E				
43-047-54150	NBU						R22E R22E				
43-047-54154	NBU						R22E R22E				
43-047-54155	NBU						R22E R22E				
43-047-54156	NBU						R22E R22E				
43-047-54157	NBU						R22E R22E				
43-047-54159	NBU	922-3504BS					R22E R22E				
43-047-54162	NBU						R22E R22E				
43-047-54167	NBU	922-3501C2S					R22E R22E				
43-047-54170	NBU	922-3501CS					R22E R22E				
43-047-54172	NBU	922-35J4C2S					R22E R22E				
43-047-54175	NBU						R22E R22E				
43-047-54176	NBU	922-3504C2S					R22E R22E				
43-047-54177	NBU	922-35K4C3S					R22E R22E				
NBU 922-35I PAD											
43-047-54144	NBU						R22E R22E				
43-047-54145	NBU	922-35P4CS					R22E R22E				

Page 3

Page 4

API #	Ţ	WELL NAME	LOCATION								
(Proposed PZ	WASA	ATCH-MESA VE	RDE)								
43-047-54147	NBU	922-35P4BS					R22E R22E				
43-047-54148	NBU						R22E R22E				
43-047-54171	NBU	922-35I4CS					R22E R22E				
43-047-54173 NBU 922-35H PAD							R22E R22E				
43-047-54149		922-35I1BS					R22E R22E				
43-047-54163	NBU	922-35H4CS					R22E R22E				
43-047-54165	NBU	922-35G1BS					R22E R22E				
43-047-54168	NBU	922-35G1CS					R22E R22E				
43-047-54169	NBU	922-35H4BS					R22E R22E				
43-047-54174	NBU	922-35G4BS					R22E R22E				
<b>NBU 922-35N</b> 43-047-54151	NBU	922-35M1CS					R22E R22E				
43-047-54153	NBU	922-35M4CS					R22E R22E				
43-047-54160	NBU	922-35M1BS					R22E R22E		_		
43-047-54164		922-35M4BS					R22E R22E				
<b>NBU 922-35K PAD</b> 43-047-54158		922-35L4BS					R22E R22E		_		
43-047-54161	NBU	922-35L4CS					R22E R22E				
43-047-54166	NBU	922-35L1CS					R22E R22E				

This office has no objection to permitting the wells at this time.

Michael Coulthard

Distally signed by Michael Coulthard

Distantify and Distantif

API Well Number: 43047541290000

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:11-13-13

RECEIVED: November 13, 2013

API Well Number: 43047541290000

### **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 10/31/2013 API NO. ASSIGNED: 43047541290000

WELL NAME: NBU 922-35L1BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6356

**CONTACT:** Laura Abrams

PROPOSED LOCATION: SENW 35 090S 220E **Permit Tech Review:** 

> SURFACE: 2032 FNL 1767 FWL **Engineering Review:**

> BOTTOM: 2426 FSL 0825 FWL **Geology Review:**

**COUNTY: UINTAH** 

**LATITUDE**: 39.99416 LONGITUDE: -109.41036 **UTM SURF EASTINGS: 635706.00** NORTHINGS: 4428319.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-010954-A PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO** 

**RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** 

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291

**Potash** R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit** 

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:** 

Siting: Suspends General Siting Fee Surface Agreement

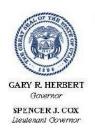
✓ Intent to Commingle R649-3-11. Directional Drill

**Commingling Approved** 

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason



### State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

### Permit To Drill

*****

Well Name: NBU 922-35L1BS API Well Number: 43047541290000 Lease Number: UTU-010954-A

Surface Owner: FEDERAL Approval Date: 11/14/2013

### Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### **Commingle:**

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007)

# RECEIVED

DEPARTMENT OF THE INTERIOR

**UNITED STATES** 

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

BUREAU OF LAND	MANAGEMENT SEP 1 0 2013	. 5. Lease Serial No. UTU010954A		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name		
la. Type of Work: DRILL REENTER	BLM	7. If Unit or CA Agreement, Name and No. UTU63047A		
_ 1b. Type of Well: □ Oil Well ■ Gas Well □ O	ther	8. Lease Name and Well No. NBU 922-35L1BS		
	- I ALIDA ADDAMC	9. API Well No.		
3a. Address 1099 18TH STREET SUITE 600 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 720-929-6356 Fx: 720-929-7356	10. Field and Pool, or Exploratory NATURAL BUTTES		
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area		
At surface SENW 2032FNL 1767FW	L 39.994186 N Lat, 109.410398 W Lon	Sec 35 T9S R22E Mer SLB		
At proposed prod. zone NWSW 2426FSL 825FWL				
<ol> <li>Distance in miles and direction from nearest town or post APPROXIMATELY 47 MILES SOUTHEAST OF</li> </ol>	office*	12. County or Parish 13. State UINTAH UT		
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ol>	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well		
825	600.00			
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth	20. BLM/BIA Bond No. on file		
completed, applied for, on this lease, ft.	9049 MD 8849 TVD	WYB000291		
21. Elevations (Show whether DF, KB, RT, GL, etc. 4988 GL	22. Approximate date work will start 04/01/2014	23. Estimated duration RECEIVED 30-60 DAYS		
	24. Attachments	MAY 1 4 2014		
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1. shall be attached to t	DIV. OF OIL, GAS & MIN	ING	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off</li> </ol>	4. Bond to cover the operation Item 20 above). 5. Operator certification	ormation and/or plans as may be required by the		
25. Signature (Electronic Submission)	Name (Printed/Typed) LAURA ABRAMS Ph: 720-929-6356	Date 00/05/2012		
Title REGULATORY ANALYST II		09/05/2013		
Approved by (Signature)	Name (Printed/Typed) Jerry Kencz	ka DaMAY 08	2014	
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE			

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #219162 verified by the BLM Well Information System
For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal
NOTICE OF APPROVAP mmitted to AFMSS for processing by LESLIE BUHLER on 09/16/2013 ()





### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

**VERNAL, UT 84078** 

(435) 781-4400



### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

KERR MCGEE OIL&GAS ONSHORE LP

NBU 922-35L1BS

43-047-54129

Location: Lease No: SENW, Sec. 35, T9S, R22E

UTU-010954A

Agreement:

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

### **NOTIFICATION REQUIREMENTS**

**Location Construction** (Notify Environmental Scientist) Forty-Eight (48) hours prior to construction of location and access roads.

**Location Completion** (Notify Environmental Scientist) Prior to moving on the drilling rig.

Spud Notice (Notify Petroleum Engineer) Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing (Notify Supv. Petroleum Tech.)

Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm ut vn opreport@blm.gov

**BOP & Related Equipment Tests** (Notify Supv. Petroleum Tech.)

Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice (Notify Petroleum Engineer) Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 6 Well: 922-35L1BS 5/1/2014

### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
  work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
  mitigation may be necessary for the discovered paleontologic material before construction can
  continue.
- Paleontological monitoring by a BLM permitted paleontologist is required during all grounddisturbing activities (BLM 2012b).
- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devices that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).

Page 3 of 6 Well: 922-35L1BS

5/1/2014

### DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

 Kerr-McGee Oil & Gas Onshore L.P.. shall adhere to all referenced requirements in the SOP (version: "Standard Operating Practice Agreement for the Greater Natural Buttes Field", Oct 21, 2012). The operator shall also comply with applicable laws and regulations; with lease terms Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the, authorized officer.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
  encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
  Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

Page 4 of 6 Well: 922-35L1BS 5/1/2014

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: 922-35L1BS 5/1/2014

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <a href="https://www.ONRR.gov">www.ONRR.gov</a>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written communication
  and must be received in this office by not later than the fifth business day following the date on
  which the well is placed on production. The notification shall provide, as a minimum, the following
  informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

Page 6 of 6 Well: 922-35L1BS

5/1/2014

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

• All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 55914 API Well Number: 43047541290000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010954-A
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-35L1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047541290000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 80217	<b>PHONE NUMBER:</b> 73779 720 929-	9. FIELD and POOL or WILDCAT: 6 INATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2032 FNL 1767 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 35 Township: 09.0S Range: 22.0E Merid	lian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:  11/14/2014	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
11/14/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Nopen Suite	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	completed operations. Clearly show a Gas Onshore, L.P. (Kerr-McGe APD for the maximum time with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the
NAME (PLEASE PRINT) Kay E. Kelly	<b>PHONE NUMB</b> 720 929 6582	ER TITLE Regulatory Analyst	
SIGNATURE N/A		<b>DATE</b> 9/24/2014	

Sundry Number: 55914 API Well Number: 43047541290000



### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

### Request for Permit Extension Validation Well Number 43047541290000

API: 43047541290000 Well Name: NBU 922-35L1BS

Location: 2032 FNL 1767 FWL QTR SENW SEC 35 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 11/14/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• · · · · · · · · · · · · · · · · · · ·	o a oncomist of come item	io related to the approacher, which endula be verifical
	eated on private land, has  No	the ownership changed, if so, has the surface agreement been updated?
	e any wells been drilled in irements for this location	the vicinity of the proposed well which would affect the spacing or siting ?
		ner agreements put in place that could affect the permitting or operation of thi No
	e there been any changes osed location? ( Yes	to the access route including ownership, or rightof- way, which could affect th  No
• Has	the approved source of w	ater for drilling changed? 🔘 Yes 📵 No
		changes to the surface location or access route which will require a change in d at the onsite evaluation? ( Yes ( No
• Is bo	onding still in place, which	covers this proposed well? 🌘 Yes 🔘 No
nature:	Kay E. Kelly	Date: 9/24/2014

Sig

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 67358 API Well Number: 43047541290000

	STATE OF UTAH		FORM 9			
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010954-A			
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-35L1BS			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	<b>9. API NUMBER:</b> 43047541290000					
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PHo n Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 720 929-6	9. FIELD and POOL or WILDCAT: 510/ATUERAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2032 FNL 1767 FWL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNSH	<b>IIP, RANGE, MERIDIAN:</b> 35 Township: 09.0S Range: 22.0E Meridian:	S	STATE: UTAH			
11. CHECK	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start: 11/2/2015	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION			
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT	☐ WATER SHUTOFF ☐	SI TA STATUS EXTENSION	✓ APD EXTENSION			
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all pe	ortinant dataile including datae, d	<u>'</u>			
Kerr-McGee Oil & G an extension to this	as Onshore, L.P. (Kerr-McGee) APD for the maximum time allowith any questions and/or com	respectfully requests owed. Please contact	Approved by the UNew Only is in the Oil, Gas and Mining			
			Date:			
			By: Bacquill			
NAME (PLEASE PRINT) Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	TITLE Regulatory Specialist				
SIGNATURE N/A		<b>DATE</b> 11/2/2015				

Sundry Number: 67358 API Well Number: 43047541290000



### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

### Request for Permit Extension Validation Well Number 43047541290000

API: 43047541290000 Well Name: NBU 922-35L1BS

Location: 2032 FNL 1767 FWL QTR SENW SEC 35 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 11/14/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• • • • • • • • • • • • • • • • • • • •
<ul> <li>If located on private land, has the ownership changed, if so, has the surface agreement been updated?</li> <li>Yes </li> <li>No</li> </ul>
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?</li> <li>Yes</li> <li>No</li> </ul>
• Has the approved source of water for drilling changed? Q Yes   No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Jennifer Thomas Date: 11/2/2015

Sig

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Form 3160-5 (August 2007)

# RECEIVED

**UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APR 2 9 2016

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

5. Lease Serial No. UTU010954A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use the abandoned we	is form for proposals to ori II. Use form 3160-3 (AFD) f	or such pla	ein	al	UT	6. If In	dian, Allottee o	or Tribe Name	
SUBMIT IN TRI	PLICATE - Other instruction	s on rever	se side.				nit or CA/Agree J63047A	ement, Name and/or No.	
1. Type of Well			,				Name and No.		
☐ Oil Well ☑ Gas Well ☐ Otl						ļ	922-35L1BS		
Name of Operator     KERR MCGEE OIL & GAS OF	Contact: JOE NSHOREE-Mail: JOEL.MALEFY	L MALEFY T@ANADAR	T RKO.COM				Well No. 047-54129		
3a. Address 1368 SOUTH1200 EAST VERNAL, UT 84078	3b. Ph	Phone No. (i : 720-929-	o. (include area code) 10. Field and Poc 29-6828 GREATER					Exploratory URAL BUTTES	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)					11. Co	11. County or Parish, and State		
Sec 35 T9S R22E Mer SLB S 39.994186 N Lat, 109.410398					UIN	TAH COUN	TY, UT		
12. CHECK APPI	ROPRIATE BOX(ES) TO IN	DICATE N	IATURE	OF NC	TICE, R	EPORT,	OR OTHE	R DATA	
TYPE OF SUBMISSION			TYP	PE OF A	CTION				
✓ Notice of Intent	☐ Acidize	□ Deeper	n		☐ Product	tion (Star	t/Resume)	☐ Water Shut-Off	
	☐ Alter Casing	☐ Fractui	re Treat	(	☐ Reclam	ation		■ Well Integrity	
☐ Subsequent Report	Casing Repair	□ New C	onstruction	n (	☐ Recom _j	olete		<b>⊘</b> Other	
☐ Final Abandonment Notice	☐ Change Plans	Plug ar	~ .		☐ Tempoi	rarily Abandon		Change to Original A PD	
	☐ Convert to Injection	□ Plug B			Disposal				
testing has been completed. Final Abdetermined that the site is ready for the ready for final Abdetermined that the site is ready for final Abdetermined that th	inal inspection.) re, L.P. (Kerr-McGee) respect maximum time allowed. Please ns and/or comments. Thank yo	fully reques e contact th ou.	sts an e R	ECE	<b>IVED</b> 2016		VERNA	LFIELD OFFICE	
CONDITIONS OF AP	PROVAL ATTACHED			JIL, GA	o & MINI	NG	PET RECL		
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #33797 For KERR MCGEE OIL Committed to AFMSS for pre	L & GAS ON	SHORE,	sent to	the Verna	l Č	·	-	
Name (Printed/Typed) JOEL MAL	_EFYT	T	itle REC	GULAT	ORY AN	ALYST			
Signature (Electronic S				29/2010					
	THIS SPACE FOR F	EDERAL	OR STA						
Approved By	h		L Title	ands 8	ant Fletc Mineral	Resourc	es 1	MAY 1 2 2016	
Conditions of approval it any, are attracted certify that the applicant holds legal or equivalent would entitle the applicant to conductive the conductive that the applicant to conductive the applic	itable title to those rights in the subje	varrant or	Office	VER	NAL FI	ELDO	FFICE		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s					lfully to ma	ke to any	department or	agency of the United	

## **CONDITIONS OF APPROVAL**

### Kerr McGee Oil and Gas Onshore LP.

### Notice of Intent APD Extension

Lease:

UTU-010954A

Well:

NBU 922-35L1BS

Location:

SENW Sec 35-T9S-R22E

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 05/08/2018.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

Sundry Number: 75726 API Well Number: 43047541290000

STATE OF UTAH			FORM 9	
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010954-A	
SUNDRY NOTICES AND REPORTS ON WELLS			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.			7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-35L1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.			9. API NUMBER: 43047541290000	
3. ADDRESS OF OPERATOR: PHONE NUMBER: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 720 929-			9. FIELD and POOL or WILDCAT: 6.4%ATURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: UINTAH	
2032 FNL 1767 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 35 Township: 09.0S Range: 22.0E Meridian: S			STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA				
TYPE OF SUBMISSION TYPE OF ACTION				
NOTICE OF INTENT Approximate date work will start: 11/1/2016	ACIDIZE	ALTER CASING	CASING REPAIR	
	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12 DESCRIBE PROPOSED OR		all nertinent details including dates	denths volumes etc	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.  Approved by the Unable Division of the Un				
			Date:	
			By: Boogyss	
NAME (PLEASE PRINT) Joel Malefyt	PHONE NUMB 720 929-6828	ER TITLE Regualtory Analyst		
SIGNATURE	. 23 023 0020	DATE		
N/A		11/1/2016		

Sundry Number: 75726 API Well Number: 43047541290000



### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

### Request for Permit Extension Validation Well Number 43047541290000

API: 43047541290000 Well Name: NBU 922-35L1BS

Location: 2032 FNL 1767 FWL QTR SENW SEC 35 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 11/14/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has to Yes  No	the ownership changed, if so, has the surface agreement been updated? 🔘
Have any wells been drilled in requirements for this location?	the vicinity of the proposed well which would affect the spacing or siting Yes  No
Has there been any unit or oth proposed well?     Yes	er agreements put in place that could affect the permitting or operation of this No
Have there been any changes to proposed location?     Yes	o the access route including ownership, or rightof- way, which could affect the No
• Has the approved source of wa	ter for drilling changed? 🔘 Yes 🌘 No
	changes to the surface location or access route which will require a change in d at the onsite evaluation? ( Yes ( No
• Is bonding still in place, which	covers this proposed well? 🍺 Yes 🔘 No
nature: Joel Malefyt	Date: 11/1/2016

Sig

Title: Regualtory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.